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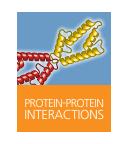
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Alpha Technology



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WHEN PROTEINS COME TOGETHER ALPHA MAKES THINGS HAPPEN

The interactions and binding of proteins are implicated

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Alpha Technology is a highly flexible, homogeneous, no-wash assay ideal for the measurement of protein interactions and complexes as large as 200 nm in size. A bead-based proximity assay, Alpha Technology offers the possibility to assay many biological targets, including enzymes, receptor-ligand interactions, low-affinity interactions, second messenger levels, DNA, RNA, proteins, peptides, sugars and small molecules.

When Alpha Donor and Acceptor beads are brought together, a cascade of chemical reactions is set into motion creating a greatly amplified signal. The highly versatile beads can be coated with various biomolecules enabling detection of unique biological events.

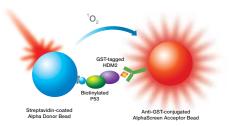
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Choose Alpha Technology for the study of proteins and their interactions using both biochemical and cell-based assays. Alpha Technology offers:

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- Easy miniaturization
- Flexibility choose custom or off-the-shelf solutions
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Mechanism of Action

- The Donor and Acceptor beads can be coated with different molecules depending on the type of reaction or event which needs to be studied
- Interaction between bead-bound molecules and analyte brings Donor and Acceptor beads into close proximity
- 3. The Donor bead is excited with a laser at 680 nm and releases a singlet of oxygen
- 4. The singlet of oxygen can travel up to 200 nm and allows for large interactions to be studied
- 5. The singlet of oxygen excites the Acceptor bead and a light emission is produced (between 520-620 nm) which is proportional to the level of interaction

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See pages 8 and 9 to learn how your peers are using Alpha Technology to enhance their research.

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Small compound screen for E6/E6AP interaction inhibitors

Assay Type

AlphaScreen with recombinant protein and peptide

PerkinElmer Products Used

- Streptavidin-coated Alpha Donor beads
- GSH or anti-GST AlphaScreen Acceptor beads
- EnVision® Multilabel Plate Reader

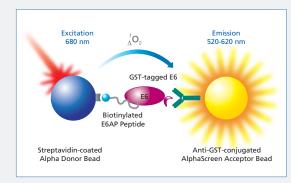
Results

E6 is an oncogene encoded by the human papilloma virus that has been shown to be involved in the development of cervical cancer through binding to the E6-associated protein E6AP, an inactivator of p53. An AlphaScreen assay was developed to monitor the binding between E6 and the minimal E6-binding domain of the E6AP protein. The assay was validated with a pilot screen using 3000 compounds and enabled the identification of potential inhibitors of the E6/E6AP interaction.

Reference

Sehr, P., Pawlita, M. & Lewis, J. Evaluation of different glutathione S-transferase-tagged protein captures for screening E6/E6AP interaction inhibitors using AlphaScreen.

J Biomol Screen 12 (4), 560-567 (2007).



Interaction: Virus-encoded oncogene E6 protein with its cellular target, E6AP.

Chemical Biology Core Facility, EMBL German Cancer Research Center

Case Study 2: Measurement of Endogenous/Exogenous Protein Binding

Peptide-binding assays to MHC Class I and II

Assay Type

AlphaScreen with recombinant proteins and peptide

PerkinElmer Products Used

- Streptavidin-coated Alpha Donor beads
- AlphaScreen Acceptor beads
- EnVision Multilabel Plate Reader

Results

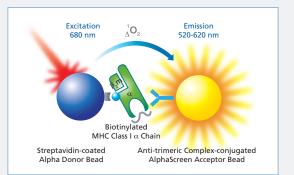
MHC Class I and II molecules specifically bind to peptides derived from endogenous or exogenous proteins, respectively, presenting them at the cell surface for recognition by circulating T cells, thereby eliciting an immune response. In these two studies, the authors developed an AlphaScreen assay to detect and measure affinities for peptide binding to MHC Class I and II making use of recombinant biotinylated HLA subunits and conformation-specific antibodies recognizing the trimeric protein complexes. Only through the binding of specific peptides will an AlphaScreen signal be generated.

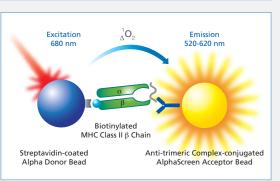
References

Justesen, S., Harndahl, M., Lamberth, K., Nielsen, L.L., Roder, G. & Buus, S. Functional recombinant MHC class II molecules and highthroughput peptide-binding assays. Immunome Res 5:2 (2009).

Harndahl, M., Justesen, S., Lamberth, K., Roder, G., Nielsen, M. & Buus, S. Peptide binding to HLA class I molecules: homogenous, high-throughput screening and affinity assays.

J Biomol Screen 14 (2), 173-180 (2009).





Interaction: Peptide bridging two proteins.

Laboratory of Experimental Immunology, University of Copenhagen

www.perkinelmer.com/AlphaPPI

High throughput screening of Hsp90/cochaperone HOP interaction inhibitors

Assay Type

AlphaScreen with recombinant protein and peptide

PerkinElmer Products Used

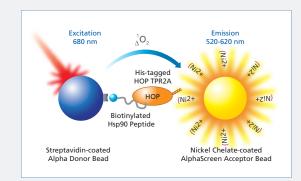
- Streptavidin-coated Alpha Donor beads
- AlphaScreen Acceptor beads (nickel chelate-conjugated)
- EnVision Multilabel Plate Reader

Results

The anticancer drug target Hsp90, through its interaction with a number of cochaperones, enables the folding and maturation of a battery of oncogenic signaling proteins. An AlphaScreen assay was used to measure the interaction between the 20-mer C-terminal peptide of Hsp90 and the tetricopeptide repeat (TPR) domain of Hsp90/Hsp70-organizing protein HOP. Following automation optimization of the assay into a 1536-well format, the assay was screened against an NIH Genomics Center library of 76,134 compounds to uncover potential Hsp90-HOP inhibitors.

Reference

Yi, F., Zhu, P., Southall, N., Inglese, J., Austin, C.P., Zheng, W. & Regan, L. An AlphaScreen-based high-throughput screen to identify inhibitors of Hsp90-cochaperone interaction. J Biomol Screen 14, 273-281 (2009).



Interaction: Hsp90 with its cochaperone HOP.

Dept. Molecular Biophysics & Biochemistry, Yale University NIH Chemical Genomics Center

Case Study 4: Simultaneous Measurement of Protein Interactions and Phosphorylation

MAP kinase ERK2 dissociation from MAP2K MEK1 upon phosphorylation

Assay Type

AlphaScreen and AlphaLISA in a single well with recombinant proteins

PerkinElmer Products Used

- Alpha Donor beads (GSH-conjugated)
- AlphaScreen Acceptor beads (Anti-mouse IgG)
- AlphaLISA Acceptor beads (nickel chelate-conjugated)
- EnVision Multilabel Plate Reader

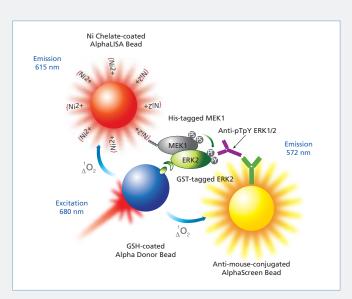
Results

This assay fuses the versatility of AlphaScreen and AlphaLISA platforms. In its unphosphorylated state, GST-ERK2 binds His-MEK1. In the presence of ATP, MEK1 phosphorylates ERK2, causing both proteins to

dissociate. Phosphorylation-interaction patterns generated are characteristic for each enzyme-substrate pair and were used to compare mechanisms of action and selectivity of phosphatases as well as small-molecule kinase inhibitors, allowing to discriminate between an ATP-competitor and an allosteric modulator.

Reference

Arcand, M., Roby, P., Bossé, R., Lipari, F., Padrós, J., Beaudet, L., Marcil, A. & Dahan, S. Single-well monitoring of protein-protein interaction and phosphorylation-dephosphorylation events. Biochemistry 49 (15), 3213-3215 (2010).



Interaction: Simultaneous monitoring of enzyme activity and protein-protein interaction.

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Alpha Technology Toolbox Beads for Protein-Protein Interaction Studies

Alpha Donor Beads Anti-FLAG Anti-mouse IgG Anti-rabbit IgG Glutathione Nickel Chelate Protein A Strep-Tactin Streptavidin Unconjugated

AlphaScreen Acceptor Beads*

Protein A Unconjugated

AlphaLISA Acceptor Beads

с-Мус		
DIG		
FITC		
FLAG		
GST		
НА		
Histidine (N	lickel Chelate)	
Biotinylated	l-GST	

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^{*}AlphaScreen is another Acceptor bead type, which emits at 520-620 nm.

^{**}Kits include both a Donor and Acceptor bead.

⁺Coming soon

Scientific References

Reference	Donor Bead	Accepto Bead
Al-Mawsawi, L.Q., Christ, F., Dayam, R., Debyser, Z. & Neamati, N. Inhibitory profile of a LEDGF/p75 peptide against HIV-1 integrase: nsight into integrase-DNA complex formation and catalysis. FEBS Lett 582, 1425-1430 (2008).	Anti-FLAG	Ni-NTA
Arcand, M., Roby, P., Bossé, R., Lipari, F., Padrós, J., Beaudet, L., Marcil, A. & Dahan, S. Single-well monitoring of protein-protein nteraction and phosphorylation-dephosphorylation events. Biochemistry 49 (15), 3213-3215 (2010).	Glutathione	Ni-NTA: Anti-mouse
Baima, E.T. et al. Novel insights into the cellular mechanisms of the anti-inflammatory effects of NF-kappaB essential modulator sinding domain peptides. J Biol Chem 285, 13498-13506 (2010).	Glutathione	Anti-FLAG
Bartholomeeusen, K. et al. Differential interaction of HIV-1 integrase and JPO2 with the C terminus of LEDGF/p75. Mol Biol 372, 407-421 (2007).	Streptavidin; Anti-FLAG	Ni-NTA; Anti-FLAG
Becker, M.N., Todd, T.M. & Moyer, R.W. An Amsacta moorei entomopoxvirus ortholog of the poly(A) polymerase small subunit exhibits methyltransferase activity and is non-essential for virus growth. Virology 375, 624-636 (2008).	Streptavidin	Anti-FLAG
Campbell, L.A. et al. Decreased recognition of SUMO-sensitive target genes following modification of SF-1 (NR5A1). Mol Cell Biol 28, 7476-7486 (2008).	Streptavidin	Ni-NTA
Courtney, H.S., Zhang, Y., Frank, M.W. & Rock, C.O. Serum opacity factor, a streptococcal virulence factor that binds to apolipoproteins A-I and A-II and disrupts high density lipoprotein structure. J Biol Chem 281, 5515-5521 (2006).	Streptavidin	Ni-NTA
De Rijck, J. et al. Overexpression of the lens epithelium-derived growth factor/p75 integrase binding domain inhibits human mmunodeficiency virus replication. J Virol 80, 11498-11509 (2006).	Streptavidin	Ni-NTA
ujii, N. et al. An antagonist of dishevelled protein-protein interaction suppresses beta-catenin-dependent tumor cell growth. Cancer Res 67, 573-579 (2007).	Streptavidin	Anti-GST
Gesellchen, F., Prinz, A., Zimmermann, B. & Herberg, F.W. Quantification of cAMP antagonist action in vitro and in living cells. Sur J Cell Biol 85, 663-672 (2006).	Streptavidin	Anti-GST
Greenhalgh, C.J. et al. SOCS2 negatively regulates growth hormone action in vitro and in vivo. J Clin Invest 115, 397-406 (2005).	Streptavidin	Ni-NTA
laas, T. et al. The DNA sugar backbone 2' deoxyribose determines toll-like receptor 9 activation. Immunity 28, 315-323 (2008).*	Streptavidin	Protein A
lamm, S. et al. Alternating 2'-O-ribose methylation is a universal approach for generating non-stimulatory siRNA by acting as TLR7 antagonist. Immunobiology 215, 559-569 (2010).*	Streptavidin	Protein A
Harndahl, M., Justesen, S., Lamberth, K., Roder, G., Nielsen, M. & Buus, S. Peptide binding to HLA class I molecules: homogenous, nigh-throughput screening and affinity assays. J Biomol Screen 14 (2),173-180 (2009).	Streptavidin	Anti-trimeric
lombrouck, A. et al. Virus evolution reveals an exclusive role for LEDGF/p75 in chromosomal tethering of HIV. PLoS Pathog 3, e47 (2007).	Anti-MBP	Ni-NTA
fornung, V. et al. AIM2 recognizes cytosolic dsDNA and forms a caspase-1-activating inflammasome with ASC. Nature 458, 514-518 (2009).*	Streptavidin	Ni-NTA
Hou, Y. et al. Screening for antiviral inhibitors of the HIV integrase-LEDGF/p75 interaction using the AlphaScreen luminescent proximity assay. J Biomol Screen 13, 406-414 (2008).	Glutathione	Ni-NTA
erga, A. & Rock, C.O. Acyl-Acyl carrier protein regulates transcription of fatty acid biosynthetic genes via the FabT repressor n Streptococcus pneumoniae. J Biol Chem 284, 15364-15368 (2009).	Streptavidin	Ni-NTA
erga, A., Miller, D.J., White, S.W. & Rock, C.O. Molecular determinants for interfacial binding and conformational change n a soluble diacylglycerol kinase. J Biol Chem 284, 7246-7254 (2009).**	Streptavidin	Ni-NTA
ustesen, S., Harndahl, M., Lamberth, K., Nielsen, L.L. & Buus, S. Functional recombinant MHC class II molecules and igh-throughput peptide-binding assays. Immunome Res 5, 2 (2009).	Streptavidin	Custom
(adkhodayan, S. et al. Evaluation of assay technologies for the identification of protein-peptide interaction antagonists. Assay Drug Dev Technol 5, 501-513 (2007).	Streptavidin	Ni-NTA
(itamura, N., Kaminuma, O., Kitamura, F. & Miyatake, S. Characterization of binding activity between nuclear factor of activated T cells and calcineurin by amplified luminescent proximity homogeneous assay. J Immunol Methods 312, 105-110 (2006).	Streptavidin	Ni-NTA
(ota, S., Coito, C., Mousseau, G., Lavergne, J. & Strosberg, A.D. Peptide inhibitors of hepatitis C virus core oligomerization and virus production. J Gen Virol 90, 1319-1328 (2009).	Glutathione	Anti-FLAG
ota, S. et al. A time-resolved fluorescence-resonance energy transfer assay for identifying inhibitors of hepatitis C virus core limerization. Assay Drug Dev Technol 8, 96-105 (2010).	Glutathione	Anti-FLAG
Coury, E.J. et al. Characterization of ligands for thyroid receptor subtypes and their interactions with co-regulators. steroids 74, 270-276 (2009).	Streptavidin	Anti-GST
awrence, H.R. et al. Identification of a disruptor of the MDM2-p53 protein-protein interaction facilitated by high-throughput n silico docking. Bioorg Med Chem Lett 19, 3756-3759 (2009).	Glutathione	Ni-NTA
Aills, N.L., Shelat, A.A. & Guy, R.K. Assay optimization and screening of RNA-protein interactions by AlphaScreen. Biomol Screen 12, 946-955 (2007).*	Streptavidin	Anti-FITC
	Ni-NTA	Anti-GST

All interactions are protein-peptide/protein-protein unless otherwise indicated. *Protein-nucleic acid **Protein-lipid or protein-sugar

Moll, D. et al. Biomolecular interaction analysis in functional proteomics. J Neural Yansm 113, 1015-1032 (2006). Streptavidin Olikawa, T. et al. Identification of a small-molecule inhibitor of the interaction between Survivin and SmardDIABLO. Streptavidin Ni-NIA Biochem Biophys Res Commun 393, 253-258 (2010). Pennatsa, H. et al. Compartmentalized cyclic adenosine 3',5'-monophosphate at the plasma membrane clusters PDE3A and cystic fibrosis transmembrane conductance regulator into microdomains. Mol Biol Cell 21, 1097-1110 (2010). Plostax, A. A., Parke, N. R., Sunh-Pewell, K. & W. H. Et. Molecular recognition of corticotropin-releasing factor by Isa G-protein-coupled receptor CRFR1. J Biol Chem 283, 32900-32912 (2008). Rouleau, N. et al. Highly sensitive assays for SUMOylation and small ubiquitin-like modifier-dependent protein-protein interactions. All Biochem 375, 364-366 (2008). Savkur, R.S. et al. Ligand-dependent coactivation of the human bile acid receptor PXR by the peroxisome proliferator-activated receptor against a coactivator-laipha. J Pharmacol Exp Ther 312, 170-178 (2005). Savkur, R.S. et al. Ligand-dependent coactivation of the human bile acid receptor PXR by the peroxisome proliferator-activated receptor against a coactivator-laipha. J Pharmacol Exp Ther 312, 170-178 (2005). Schi, P., Pawils, M. & Lews, J. Evaluation of different quitathione S-transferase tagged protein captures for screening E6/E6AP Streptavidin and School Parkers. J. School Park	Reference	Donor Bead	Acceptor Bead
Renmatsa, H. et al. Compartmentalized cyclic adenosine 3',5'-monophosphate at the plasma membrane clusters PDE3A and cyclic fibrosis transmerbiane conductance regulator into microdomains. Mol Biol Cell 21, 1097-1110 (2010). Pioszak, A.A., Parker, N.R., Suino-Powell, K. & Xu, H.E. Molecular recognition of corricotropin-releasing factor by its G-protein-Coupled receptor CRR1. J Biol Chem 283, 32900-32912 (2008). Pioszak, A.A., Parker, N.R., Suino-Powell, K. & Xu, H.E. Molecular recognition of corricotropin-releasing factor by its G-protein-Coupled receptor CRR1. J Biol Chem 283, 32900-32912 (2008). Serbativity of the Hulphy sensitive sassays for SUMOylation and small ubiquitin-like modifier-dependent protein-protein interactions. Serbativity, Anal Biochem 375, 364-366 (2008). Serbativity, Serbativity, Serbativity, Serbativity, Serbativity, Serbativity, Serbativity, Serbativity, Glutathione Glutathione Savkur, R.S. et al. Ligand-dependent coactivation of the human bile acid receptor FXR by the peroxisome proliferator-activated receptor gamma coactivator-laipha. J Pharmacol Exp Iber 312, 170-178 (2005). Sehr, P., Pawlita, M. & Lewis, I. Evaluation of different glutathione S-transferase-tagged protein captures for screening E6/E6AP Streptavidin Anti-GST; Glutathione Shah, L. et al. PCRS binds to multiple receptors and can be functionally inhibited by an EGF-A peptide. Streptavidin Ni-NTA Shah, L. et al. ECRS binds to multiple receptors and can be functionally inhibited by an EGF-A peptide. Streptavidin Ni-NTA Shiperman, J. et al. Multivalent avimer proteins evolved by exon shuffling of a family of human receptor domains. Streptavidin Ni-NTA Shiperman, J. et al. Multivalent avimer proteins evolved by exon shuffling of a family of human receptor domains. Streptavidin Protein A Ni-NTA Stekka, A.J. et al. Characterization of A-kinase-anchoring disruptors using a solution-based assay. Biochem J 400, 493-499 (2006). Streptavidin Anti-GST Tolbert, W.D. et al. A mechanistic basis for converting a receptor ty	Moll, D. et al. Biomolecular interaction analysis in functional proteomics. J Neural Transm 113, 1015-1032 (2006).	Streptavidin	Anti-GST
cystic fibrosis transmembrane conductance regulator into microdomains. Mol Biol Cell 21, 1097-1110 (2010). Pioszak, A.A., Parker, N.R., Suino-Powell, K. & Xu, H.E. Molecular recognition of corticotropin-releasing factor by its G-protein-coupled receptor CRPR1. J Biol Chem 283, 32900-32912 (2008). Rouleau, N. et al. Highly sensitive assays for SUMOylation and small ubiquitin-like modifier-dependent protein-protein interactions. Streptavidin; Mi-NTA, Anal Biochem 375, 364-366 (2008). Rouleau, N. et al. Ligand-dependent coactivation of the human bile acid receptor FXR by the peroxisome proliferator-activated Anti-GST receptor gamma coactivator-1alpha. J Pharmacol Exp Ther 312, 170-178 (2005). Sehr, P., Pawlita, M. & Lewis, J. Evaluation of different glutathinone S-transferase-lagged protein captures for screening E6/E6AP interaction inhibitors using AlphaSerren. J Biomol Screen 12, 560-567 (2007). Shan, L. et al. PCSK9 binds to multiple receptors and can be functionally inhibited by an EGF-A peptide. Streptavidin Ni-NTA Biochem Biophys Res Commun 375, 69-73 (2008). Shi, C. et al. Lectin-like domain of thrombomodulin binds to its specific ligand Lewis Y antigen and neutralizes lipopolysaccharide-induced inflammatory response. Blood 112, 3661-3670 (2008). Shih, H.H. et al. CRP is a novel ligand for the oxidized LDL receptor LOX-1. Am J Physiol Heart Circ Physiol 296, H1643-1650 (2009). Streptavidin Ni-NTA Silverman, J. et al. Multivalent avimer proteins evolved by exon shuffling of a family of human receptor domains. Streptavidin Ni-NTA Silverman, J. et al. A movel ligand for the oxidized LDL receptor LOX-1 and protein A multivalent avimer proteins evolved by exon shuffling of a family of human receptor domains. Streptavidin Ni-NTA Silverman, J. et al. A multivalent avimer proteins evolved by exon shuffling of a family of human receptor domains. Streptavidin Ni-NTA Streptavidin Anti-GST Tolbert, W.D. et al. A mechanistic basis for converting a receptor tyrosine kinase agonist to an antagonists. S	·	Streptavidin	Ni-NTA
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