

助力腫瘤免疫療法研究 新型態細胞毒殺檢測試劑



 數百篇文獻採用

 快捷安全精確，完美取代傳統 ^{51}Cr 釋放法

DELFIA® EuTDA Cytotoxicity Detection Kit Cat. No. [AD0116](#)

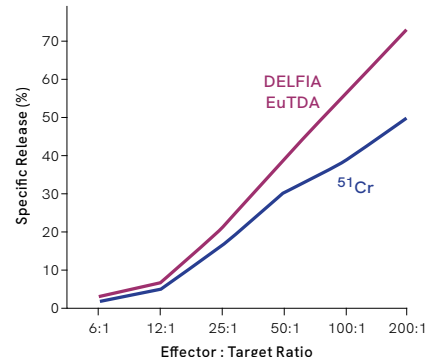
DELFIA® 主要是利用時差性螢光 (TRF) 進行偵測。這類螢光具有較長的半衰期，因此可藉由設定延後訊號讀取時間去除背景螢光干擾、進而提升偵測靈敏度，使研究人員能夠取得更加精確的實驗結果！目前已有數百篇文獻採用 DELFIA® 技術，其應用研究領域涵蓋 ADCC、CDC、CAR-T、NK cell activity 等。完整產品資訊與最新活動訊息，歡迎洽詢 [Revvity](#) 台灣代理 [伯森生技](#)。

優勢特點

- 與傳統 ^{51}Cr 釋放法相比擬的偵測靈敏度。
- 實驗流程更快速便利，數據精確穩定。
- 安全環保，無放射性污染。

數百篇文獻採用 (近期文獻)

- iPSC-derived natural killer cells expressing the FcγR fusion CD64/16A can be armed with antibodies for multitumor antigen targeting. *J Immunother Cancer*. 2023. PMID: [38056893](#)
- Cancer-associated fibroblasts impair the cytotoxic function of NK cells in gastric cancer by inducing ferroptosis via iron regulation. *Redox Biol*. 2023. PMID: [37832398](#)
- T cells with split CARs specific for NKG2D ligands and PD-L1 exhibit improved selectivity towards monocyte-derived cells while effective in eliminating acute myeloid leukaemia *in vivo*. *J Cancer Res Clin Oncol*. 2023. PMID: [37270461](#)



Comparison of specific release of TDA and ^{51}Cr from K-562 cells (4-hour assay) — The DELFIA Cytotoxicity assay exhibits strong specific release, and its sensitivity correlates well with the Chromium-51 release assay.



Assay Principle of DELFIA EuTDA Cytotoxicity Detection Kit — The DELFIA Cytotoxicity assay takes advantage of a fluorescence enhancing ligand (BATDA) which crosses the cell membrane passively, enabling target cell loading that is both rapid and gentle. Once inside the cell, the ligand is immediately hydrolyzed by cellular esterases to generate a hydrophilic molecule (TDA) that can no longer penetrate the membrane. Cytolysis releases TDA into the supernatant to form a highly fluorescent lanthanide chelate with Europium; cytolysis levels are proportional to the amount of fluorescent signal produced.

