

Product datasheet for **SM3131LE**

DR4 (TNFRSF10A) Mouse Monoclonal Antibody [Clone ID: DR-4-02]

Product data:

Product Type:	Primary Antibodies
Clone Name:	DR-4-02
Applications:	FC, IF
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Fusion protein containing the extracellular part of TRAIL-R1 and the constant part of the heavy chain of the human IgG1.
Specificity:	The antibody DR-4-02 recognizes TRAIL-R1 (DR4), a human death receptor 4 (468 amino acids) expressed in most human tissues (spleen, peripheral blood leucocytes, thymus) and in a variety of tumour-derived cell lines.
Formulation:	Azide free phosphate buffered saline (PBS), approx. pH 7.4 State: Endotoxin Low State: Liquid Ig fraction
Concentration:	lot specific
Purification:	Protein A-affinity chromatography, filter sterilized
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C to -80°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	tumor necrosis factor receptor superfamily member 10a
Database Link:	Entrez Gene 8797 Human O00220

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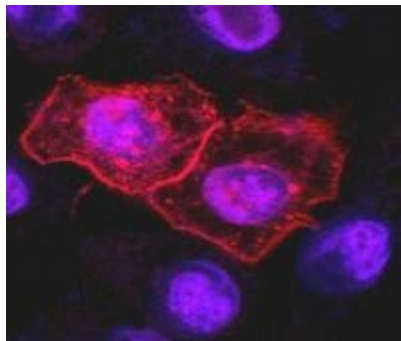
Background:

TRAIL-R1 (CD261, DR4) is a type I transmembrane protein, also called TRAIL receptor 1. The ligand for this DR4 death receptor has been identified and termed TRAIL, which is a member of the TNF family. DR4, as many other receptors (Fas, TNFR1, etc.), mediates apoptosis and NF kappaB activation in many cells and tissues.

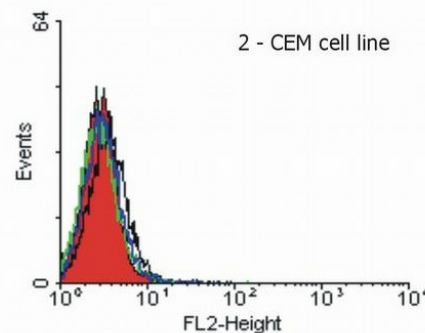
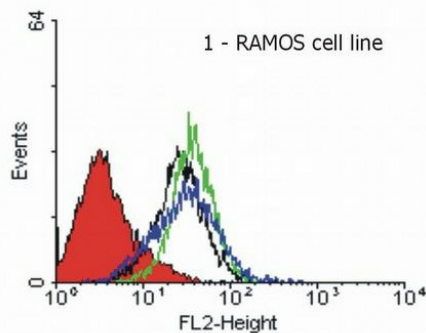
Apoptosis, a programmed cell death, is a operating process in normal cellular differentiation and development of multicellular organisms. Apoptosis is induced by coupled of certain cytokines (TNF family - TNF, Fas ligand) and their death domain containing receptors (TNFR1, Fas receptor).

Synonyms:

APO2, DR4, Death receptor 4, TRAIL receptor 1, TRAIL-R1, TNFRSF10A

Product images:


Immunofluorescence staining (confocal microscopy) of HeLa human cervix carcinoma cell line transfected with TRAIL-R1 expression plasmid using anti-human TRAIL-R1 (DR-4-02).



Flow Cytometry analysis of TRAIL-R1 expression on the surface of hematopoietic cell lines. Cells were stained with purified anti-TRAIL-R1 antibodies followed by Goat anti-mouse IgG PE. Histograms: Red - Goat anti-mouse IgG PE (no primary antibody), Black - anti-TRAIL-R1 comparative antibody, Blue and Green - anti-TRAIL-R1 (DR-4-02) in duplicate staining