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Product datasheet for SM3131PS

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

Product data:

Product Type:	Primary Antibodies
Clone Name:	DR-4-02
Applications:	FC, FN, IF, IP
Recommended Dilution:	**Flow cytometry:** Recommended dilution: 3-5 µg/ml. **Immunoprecipitation.** **Immunocytochemistry.** **Functional Application:** Soluble antibody DR-4-02 blocks apoptosis triggered by a ligand (TRAIL). Plastic-immobilized (cross-linked) DR-4-02 antibody induces apoptosis in sensitive cells. Recommended dilution of antibody: 2-3 µg/ml in cultivation medium. Final concentration of TRAIL: 20-200 ng/ml. Application note: It is recommended to add the antibody 15 min before addition of TRAIL.
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:	This antibody 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:	Phosphate buffered saline (PBS) State: Aff - Purified State: Liquid Ig fraction Preservative: 15 mM sodium azide, approx. pH 7.4
Concentration:	lot specific
Purification:	Protein-A affinity chromatography (> 95% pure by SDS-PAGE)
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.

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Stability: Shelf life: one year from despatch.

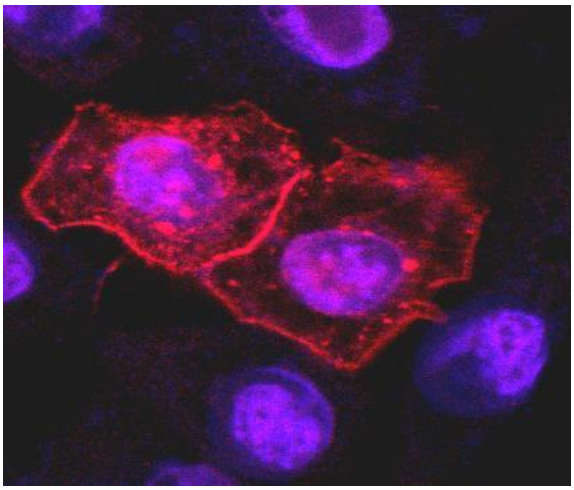
Gene Name: tumor necrosis factor receptor superfamily member 10a

Database Link: Entrez Gene 8797 Human
O00220

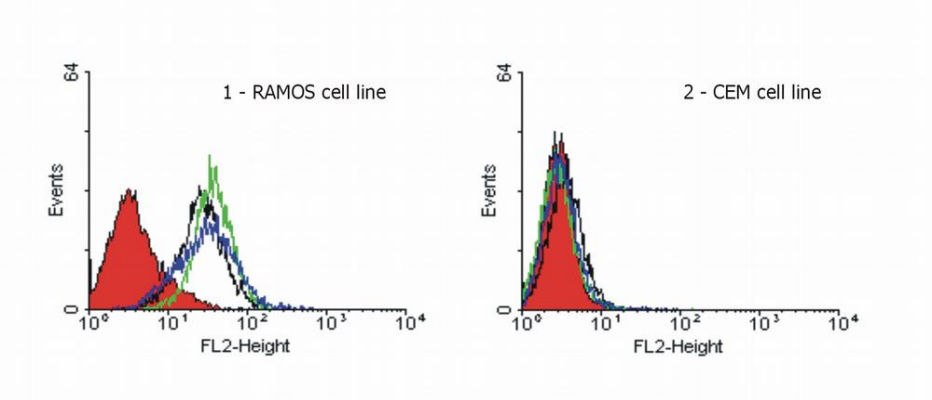
Background: TRAIL-R1 (CD261, DR4) is a type I transmembrane protein, also called TRAIL receptor 1. The ligand for this DR4 death receptor has been identified and termed TRAIL, which is a member of the TNF family. DR4, as many other receptors (Fas, TNFR1, etc.), mediates apoptosis and NF kappaB activation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