ARG65436
anti-CD261 / TRAIL R1 antibody [DR-4-02]

Package: 100 µg
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody [DR-4-02] recognizes CD261 / TRAIL R1
Tested Reactivity	Hu
Tested Application	FACS, FuncSt, ICC/IF, IP
Specificity	The clone 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.
Host	Mouse
Clonality	Monoclonal
Clone	DR-4-02
Isotype	IgG1
Target Name	CD261 / TRAIL R1
Species	Human
Immunogen	Fusion protein containing the extracellular part of TRAIL-R1 and the constant part of the heavy chain of the human IgG1.
Conjugation	Un-conjugated
Alternate Names	TNF-related apoptosis-inducing ligand receptor 1; CD antigen CD261; TRAILR-1; DR4; Tumor necrosis factor receptor superfamily member 10A; CD261; Death receptor 4; APO2; TRAIL receptor 1; TRAIL-R1; TRAILR1

Application Instructions

Application table

Application	Dilution
FACS	1 - 4 µg/ml
FuncSt	2 - 3 µg/ml
ICC/IF	Assay-dependent
IP	Assay-dependent

Application Note

Functional studies: Soluble clone DR-4-02 blocks apoptosis triggered by a ligand (TRAIL). Plastic-immobilized (cross-linked) DR-4-02 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.
* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Properties

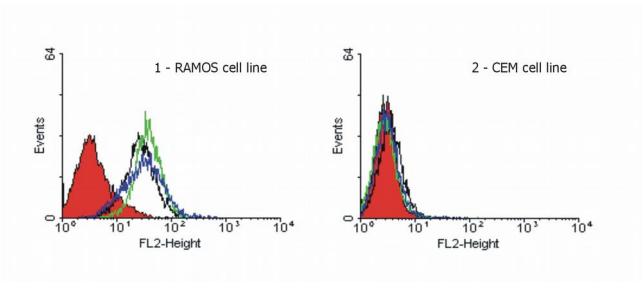
Form	Liquid

Purification	Purified from cell culture supernatant by protein-A affinity chromatography.
Purity	> 95% (by SDS-PAGE)
Buffer	PBS (pH 7.4) and 15 mM Sodium azide
Preservative	15 mM Sodium azide
Concentration	1 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

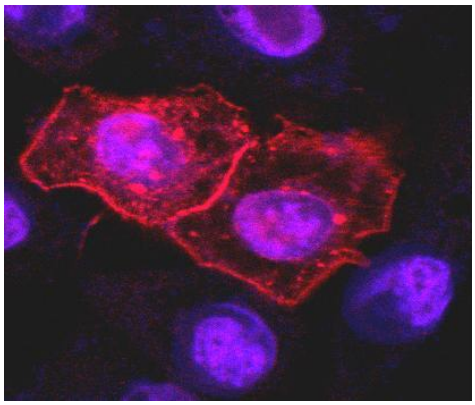
Database links	GeneID: 8797 Human Swiss-port # O00220 Human
Gene Symbol	TNFRSF10A
Gene Full Name	tumor necrosis factor receptor superfamily, member 10a
Background	TRAIL-R1 (CD261, DR4) is a type I transmembrane protein, also called TRAIL receptor 1. The ligand for this DR4 death receptor has been identified 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).
Function	Receptor for the cytotoxic ligand TNFSF10/TRAIL. The adapter molecule FADD recruits caspase-8 to the activated receptor. The resulting death-inducing signaling complex (DISC) performs caspase-8 proteolytic activation which initiates the subsequent cascade of caspases (aspartate-specific cysteine proteases) mediating apoptosis. Promotes the activation of NF-kappa-B. [UniProt]
Research Area	Cell Biology and Cellular Response antibody; Cell Death antibody; Immune System antibody
Calculated Mw	50 kDa

Images



ARG65436 anti-CD261 / TRAIL R1 antibody [DR-4-02] FACS image

Flow Cytometry: Hematopoietic cells stained with ARG65436 anti-CD261 / TRAIL R1 antibody [DR-4-02], followed by incubation with PE-labelled secondary antibody.



ARG65436 anti-CD261 / TRAIL R1 antibody [DR-4-02] ICC/IF image

Immunofluorescence: HeLa cells transfected with TRAIL-R1 expression plasmid stained with ARG65436 anti-CD261 / TRAIL R1 antibody [DR-4-02].