

ARG65607 anti-CD261 / TRAIL R1 antibody [DR-4-02] (low endotoxin)

Package: 100 µg
Store at: -20°C

Summary

Product Description	Low endotoxin Mouse Monoclonal antibody [DR-4-02] recognizes CD261 / TRAIL R1
Tested Reactivity	Hu
Tested Application	FACS, FuncSt, ICC/IF, IP
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.
Host	Mouse
Clonality	Monoclonal
Clone	DR-4-02
Isotype	IgG1
Target Name	CD261 / TRAIL R1
Species	Human
Immunogen	Fusion protein containing Human TRAIL-R1 (extracellular part) and Human IgG1 heavy chain (constant part).
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	2 - 4 µg/ml
	FuncSt	Assay-dependent
	ICC/IF	Assay-dependent
	IP	Assay-dependent

Application Note

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.
* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

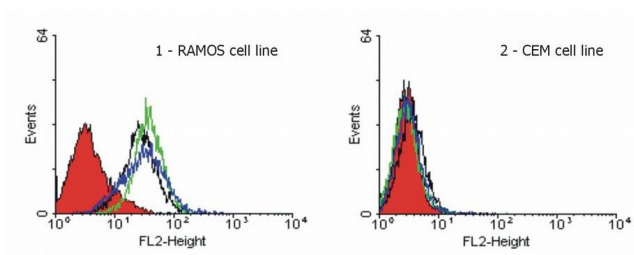
Properties

Form	Liquid
Purification	Purification with Protein A.
Purification Note	0.2 µm filter sterilized. Endotoxin level is 95% (by SDS-PAGE)
Buffer	PBS (pH 7.4)
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	The protein encoded by this gene is a member of the TNF-receptor superfamily. This receptor is activated by tumor necrosis factor-related apoptosis inducing ligand (TNFSF10/TRAIL), and thus transduces cell death signal and induces cell apoptosis. Studies with FADD-deficient mice suggested that FADD, a death domain containing adaptor protein, is required for the apoptosis mediated by this protein. [provided by RefSeq, Jul 2008]
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



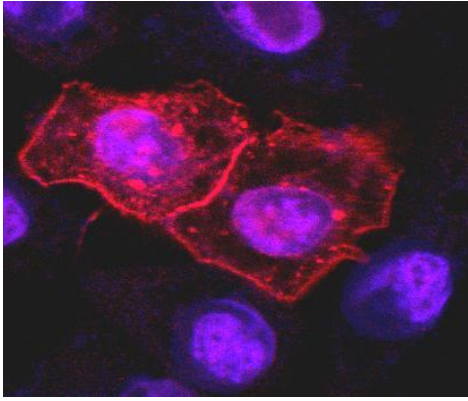
ARG65607 anti-CD261 / TRAIL R1 antibody [DR-4-02] (low endotoxin) FACS image

Flow Cytometry: Two hematopoietic cell lines stained with ARG65607 anti-CD261 / TRAIL R1 antibody [DR-4-02] (low endotoxin) followed by incubation with PE-labelled secondary antibody.

Red: secondary antibody (no primary antibody).

Black: anti-TRAIL-R1 comparative antibody.

Blue and Green: Primary antibody in duplicate staining.



ARG65607 anti-CD261 / TRAIL R1 antibody [DR-4-02] (low endotoxin) ICC/IF image

Immunofluorescence: HeLa Human cervix carcinoma cell line transfected with DR4 expression plasmid and stained with ARG65607 anti-CD261 / TRAIL R1 antibody [DR-4-02] (low endotoxin).