

Datasheet for ABIN192359

anti-TNFRSF10B antibody (Extracellular Domain) (PE)



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Overview

Quantity:	0.1 mg
Target:	TNFRSF10B
Binding Specificity:	Extracellular Domain
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This TNFRSF10B antibody is conjugated to PE
Application:	Flow Cytometry (FACS)

Product Details

Immunogen:	Recombinant fusion protein of human IgG heavy chain and extracellular domain of DR5.
Clone:	DR5-01-1
Isotype:	IgG1
Specificity:	The mouse monoclonal antibody DR5-01-1 recognizes an extracellular domain of TRAIL-R2 (DR5). TRAIL-R2 is one of two TNF superfamily members that contain death domain for TRAIL (APO2L).
Cross-Reactivity (Details):	Human
Purification:	Purified antibody is conjugated with R-phycoerythrin (PE) under optimum conditions. Unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography.

Target Details

Target:	TNFRSF10B
Alternative Name:	CD262 / TRAIL-R2 (TNFRSF10B Products)
Background:	<p>TNF receptor superfamily member 10b, TRAIL-R2 (CD262, DR5) is one of two TNF superfamily member intracellular death domain containing receptors for TRAIL (APO2L). Apoptosis, or programmed cell death, occurs during normal cellular differentiation and development of multicellular organisms. Apoptosis is induced by certain cytokines including tumor necrosis factor (TNF) and Fas ligand in the TNF family through their death domain containing receptors, TNF receptor 1 (TNFR1) and Fas, respectively. Another member in the TNF family has been identified and designated TRAIL (for TNF related apoptosis inducing ligand) and Apo2L (for Apo2 ligand). Receptors for TRAIL include two death domain containing receptors, DR4 and DR5, as well as two decoy receptors, DcR1 and DcR2, lacking the intracellular signaling death domain. DcR1 (also called TRID), like the related death receptors DR4 and DR5, contains two extracellular cysteine rich domains. However, DcR1 contains no intracellular death domain and is thus incapable of signaling apoptosis. It has been suggested DcR1 is responsible for TRAIL resistance in normal human tissues including heart, placenta, lung, liver, kidney, spleen, and bone marrow. DR5 is a member of the TNF receptor superfamily, and contains an intracellular death domain. This receptor can be activated by tumor necrosis factor related apoptosis inducing ligand (TNFSF10/TRAIL/APO2L), and transduces apoptosis signal. Studies with FADD deficient mice suggested that FADD, a death domain containing adaptor protein, is required for the apoptosis mediated by this protein., TNFRSF10B, KILLER, TRICK2, TRAIL-R2</p>
Gene ID:	8795
UniProt:	014763
Pathways:	p53 Signaling , Apoptosis , Positive Regulation of Endopeptidase Activity

Application Details

Application Notes:	Flow cytometry: Recommended dilution: 1-5 µg/mL, positive control: JURKAT human peripheral blood leukemia T cell line.
Comment:	The purified antibody is conjugated with R-Phycoerythrin (PE) under optimum conditions. The conjugate is purified by size-exclusion chromatography.
Restrictions:	For Research Use only

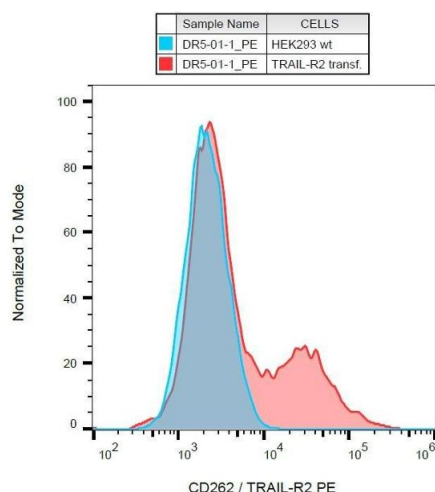
Handling

Concentration:	0.1 mg/mL
Buffer:	Stabilizing phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Do not freeze. Avoid prolonged exposure to light.
Storage:	4 °C
Storage Comment:	Store at 2-8°C. Protect from prolonged exposure to light. Do not freeze.

Publications

Product cited in:	Vondálová Blanárová, Jelínková, Szöör, Skender, Soucek, Horváth, Vaculová, Andera, Sova, Szöllosi, Hofmanová, Vereb, Kozubík: "Cisplatin and a potent platinum(IV) complex-mediated enhancement of TRAIL-induced cancer cells killing is associated with modulation of upstream events in the extrinsic apoptotic pathway." in: Carcinogenesis , Vol. 32, Issue 1, pp. 42-51, (2010) (PubMed).
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Images



Flow Cytometry

Image 1. Surface staining of CD262 on CD262-transfectants with the antibody to CD262 (DR5-01-1) PE.