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anti-TRAIL antibody (AA 95-281) (PE)

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Overview

Quantity:	0.1 mg
Target:	TRAIL (TNFSF10)
Binding Specificity:	AA 95-281
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This TRAIL antibody is conjugated to PE
Application:	Flow Cytometry (FACS)

Product Details

Immunogen:	Recombinant soluble fragment (aa 95-281) of human TRAIL.
Clone:	2E5
Isotype:	lgG1
Specificity:	The antibody 2E5 reacts with an extracellular epitope within C-terminal half of TRAIL (APO-2L), a 21 kDa cytotoxic protein, activator of rapid apoptosis in tumor cells. TRAIL is mainly expressed in spleen, lung, prostate and also in many other tissues.
No Cross-Reactivity:	Mouse
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.

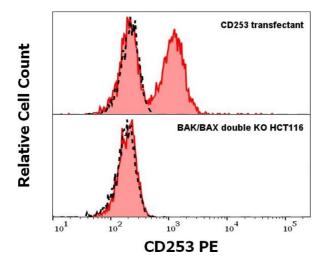
Target Details

Target:	TRAIL (TNFSF10)
Alternative Name:	CD253 / TRAIL (TNFSF10 Products)
Background:	TNF superfamily member 10,Human CD253 / TRAIL (TNF-related apoptosis inducing ligand), also called Apo2, is a type II membrane protein from the TNF family. TRAIL is a cytotoxic protein which activates rapid apoptosis in tumor cells, but not in normal cells. TRAIL-induced apotosis, is achieved through binding to two dealth-signaling receptors, DR4 (CD261 / TRAIL-R1) and DR5 (CD262 / TRAIL-R2).,TRAIL, Apo-2 ligand, Apo-2L, TNFSF10, APO2L, TNLG6A
Gene ID:	8743
UniProt:	P50591
Pathways:	Apoptosis, Positive Regulation of Endopeptidase Activity
Application Details	
Application Notes:	Flow cytometry: Recommended dilution: 1-5 µg/mL.
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:	Hyer, Croxton, Krajewska, Krajewski, Kress, Lu, Suh, Sporn, Cryns, Zapata, Reed: "Synthetic

triterpenoids cooperate with tumor necrosis factor-related apoptosis-inducing ligand to induce apoptosis of breast cancer cells." in: **Cancer research**, Vol. 65, Issue 11, pp. 4799-808, (2005) (PubMed).

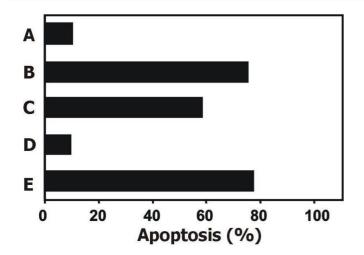
Plasilova, Zivny, Jelinek, Neuwirtova, Cermak, Necas, Andera, Stopka: "TRAIL (Apo2L) suppresses growth of primary human leukemia and myelodysplasia progenitors." in: **Leukemia**, Vol. 16, Issue 1, pp. 67-73, (2002) (PubMed).

Images



Flow Cytometry

Image 1. Anti-Hu CD253 PE antibody (clone 2E5) specificity verification by flow cytometry Colorectal cancer cell line HCT-116 with the eliminated expression of pro-apoptotic proteins BAK and BAX (prepared using CRISPR Cas9 gene editing approach) was used as host for CD253 (TRAIL) transfection. BAK/BAX double knockout cells are resistant TRAIL-induced apoptosis. Anti-Hu CD253 (concentration in sample 5 µg/mL, red-filled histogram) binds specifically to surface CD253/TRAIL in transfected cells (upper panel), but not to the parent HCT-166 BAK/BAK double KO (lower panel). Level of non-specific binding was assessed using Mouse IgG1 isotype control PE (MOPC-21) under same conditions (concentration in sample 5 µg/mL, black-dashed histogram).



Apoptosis Detection

Image 2. Induction of apoptosis Apoptosis induced in JURKAT human T cell leukemia cell line by soluble recombinant human TRAIL is completely blocked by antihuman TRAIL (2E5). The neutralizing activity of the antibody 2E5 has been confirmed with various sources of soluble recombinant human TRAIL. A - medium B - recombinant TRAIL C - recombinant TRAIL + anti-human TRAIL (2E5; 0.06 μg/ml) D - recombinant TRAIL + anti-human TRAIL (2E5; 0.24 μg/ml) E - recombinant TRAIL + Isotype mouse IgG1 control