abcam

ab183474

PE Anti-TRAIL antibody [2E5]

Anti-TRAIL antibody [2E5] conjugated to PE - suitable for flow cytometry, and reacts with human samples. Clone [2E5] is a mouse monoclonal antibody.

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Key facts

Isotype	IgG1
Host species	Mouse
Conjugation	PE
Excitation/Emission	Ex: 480;565nm, Em: 578nm
Storage buffer	pH: 7.4 Preservative: 0.097% Sodium azide Constituents: PBS, 0.2% BSA
Form	Liquid
Clonality	Monoclonal
Immunogen	Recombinant Fragment Protein within Human TNFSF10 aa 50-300. The exact immunogen used to generate this antibody is proprietary information. Database link P50591
Clone number	2E5
Purification technique	Size-exclusion chromatography
Concentration	0.1 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →
Purification notes	Purified antibody is conjugated with R-Phycoerythrin (PE) under optimum conditions. The conjugate is purified by size-exclusion chromatography.

Reactivity data

Flow Cyt

Expected

Species	Human
Dilution info	-
Notes	ab91357 - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.

Not recommended

Species	Mouse
Dilution info	-
Notes	ab91357 - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.

Target data

See full target information TNFSF10

Function	Cytokine that binds to TNFRSF10A/TRAILR1, TNFRSF10B/TRAILR2, TNFRSF10C/TRAILR3, TNFRSF10D/TRAILR4 and possibly also to TNFRSF11B/OPG (PubMed:10549288, PubMed:26457518). Induces apoptosis. Its activity may be modulated by binding to the decoy receptors TNFRSF10C/TRAILR3, TNFRSF10D/TRAILR4 and TNFRSF11B/OPG that cannot induce apoptosis.

Storage

Shipped at conditions	Blue Ice
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	+4°C
Storage information	Store in the dark

Supplementary info

This supplementary information is collated from multiple sources and compiled automatically.

Activity summary	TRAIL also known as TNF-related apoptosis-inducing ligand plays an important role in inducing apoptosis. This protein has a mass of around 32 kDa and is expressed

	across various tissues including immune cells. TRAIL interacts with specific receptors on the cell surface to initiate a signaling cascade that results in programmed cell death. It is an attractive therapeutic target because of its selective ability to induce apoptosis in cancer cells while sparing most normal cells.
Biological function summary	TRAIL's function extends beyond inducing cell death. It is an important member of the tumor necrosis factor (TNF) superfamily which regulates immune responses and inflammation. TRAIL can form a homotrimeric complex allowing it to bind effectively to death receptors on target cells specifically DR4 and DR5 triggering a series of downstream signaling events. This interaction is significant in modulating immune surveillance and tumor suppression.
Pathways	TRAIL is integral to both intrinsic and extrinsic apoptosis pathways. Through these pathways TRAIL is closely related to FADD and caspase-8 which are important for apoptosis induction. The extrinsic pathway involves binding to TRAIL death receptors leading to DISC formation while the intrinsic pathway involves mitochondrial events mediated by members of the Bcl-2 protein family.
Associated diseases and disorders	TRAIL has a significant connection with cancer and autoimmune diseases. TRAIL plays a dual role in cancer where it acts as a tumor suppressor but can also promote tumor progression if cancer cells become resistant to its effects. In cancer TRAIL's interaction with proteins like FLIP can alter the apoptotic potential of the cells. In autoimmune diseases TRAIL's dysregulation can contribute to tissue damage due to increased immune activity highlighting its complex role in maintaining immune balance.

Product promise

Tested

We have tested this species and application combination and it works. It is covered by our product promise.

Expected

We have not tested this specific species and application combination in-house, but expect it will work. It is covered by our product promise.

Predicted

This species and application combination has not been tested, but we predict it will work based on strong homology. However, this combination is not covered by our product promise.

Not recommended

We do not recommend this combination. It is not covered by our product promise.

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