

PE anti-mouse CD253 (TRAIL) Antibody

Catalog# / Size	109305 / 50 µg 109306 / 200 µg
Clone	N2B2
Regulatory Status	RUO
Other Names	TNFSF10, TNF-related apoptosis inducing ligand, Apo-2 ligand, Apo-2L, CD253
Isotype	Rat IgG2a, κ
Description	CD253 is a 40 kD TNF superfamily member known as TRAIL, Apo-2 ligand, and Apo-2L. TRAIL is expressed on a variety of cells, including IL-2 and IL-15 activated NK cells and activated T cells. However, it is undetectable on resting T and B cells. TRAIL has been reported to induce apoptosis in tumor and transformed cell lines by a caspase-dependent process. The N2B2 antibody has been reported to be useful for flow cytometric staining and blocking NK cell cytotoxicity <i>in vitro</i> .

Product Details

Verified Reactivity	Mouse
Antibody Type	Monoclonal
Host Species	Rat
Immunogen	Mouse TRAIL-transfected 2PK-3 cells
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
Preparation	The antibody was purified by affinity chromatography, and conjugated with PE under optimal conditions.
Concentration	0.2 mg/ml
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. Do not freeze.
Application	FC - Quality tested
Recommended Usage	Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis . For flow cytometric staining, the suggested use of this reagent is ≤ 0.25 µg per 10 ⁶ cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.
Excitation Laser	Blue Laser (488 nm) Green Laser (532 nm)/Yellow-Green Laser (561 nm)
Application Notes	Additional reported applications (for the relevant formats) include: <i>in vitro</i> blocking of NK cell cytotoxicity ^{1,2} . The LEAF™ purified antibody (Endotoxin <0.1 EU/µg, Azide-Free, 0.2 µm filtered) is recommended for functional assays (Cat. No. 109308).
Application References	<ol style="list-style-type: none"> 1. Kayagaki N, <i>et al.</i> 1999. <i>J. Immunol.</i> 163:1906. (Block) 2. Sato K, <i>et al.</i> 2005. <i>J. Immunol.</i> 174:4025. (Block) 3. Joshi PS, <i>et al.</i> 2006. <i>J. Leukocyte Biol.</i> 80:1345. 4. Herold S, <i>et al.</i> 2008. <i>J. Exp. Med.</i> 205:3065. PubMed 5. Iannello A, <i>et al.</i> 2009. <i>J. Virol.</i> 83:5999. PubMed 6. Komatsu M, <i>et al.</i> 2003. <i>Blood</i> 101:3991. (Block) 7. Taieb J, <i>et al.</i> 2006. <i>Nature Med.</i> 12:214. (Block) 8. Gonzaga R, <i>et al.</i> 2011. <i>J. Immunol.</i> 187:6235. PubMed.
Product Citations	<ol style="list-style-type: none"> 1. Iannello A, <i>et al.</i> 2009. <i>J Virol.</i> 83:5999. PubMed 2. Trittel S, <i>et al.</i> 2019. <i>Sci Rep.</i> 9:16362. PubMed 3. Herold S, <i>et al.</i> 2008. <i>J Exp Med.</i> 101084. PubMed

4. Liu W, *et al.* 2019. Epigenetics. 1.192361111. [PubMed](#)
5. Hirata SI, *et al.* 2020. Allergy. 75:1939. [PubMed](#)
6. Nabekura T, *et al.* 2020. Immunity. 96:52. [PubMed](#)

RRID AB_2303575 (BioLegend Cat. No. 109305)
AB_2205927 (BioLegend Cat. No. 109306)

Antigen Details

Structure	TNF ligand superfamily member, approximately 40 kD
Distribution	Widespread, highest expression in spleen, lung, prostate; NK, monocytes, neutrophils, activated T cells
Function	Induces apoptosis in tumorigenic and transformed cell lines, involved in T cell mediated cytotoxicity
Ligand/Receptor	TRAIL receptor DR5
Cell Type	Monocytes, Neutrophils, NK cells, T cells
Biology Area	Immunology
Molecular Family	CD Molecules
Antigen References	<ol style="list-style-type: none">1. Kayagaki N, <i>et al.</i> 1999. <i>J. Immunol.</i> 163:1906.2. Wiley SR, <i>et al.</i> 1995. <i>Immunity.</i> 3:673.3. Wu GS, <i>et al.</i> 1999. <i>Cancer Res.</i> 59:2770.4. Mariani SM, <i>et al.</i> 1998. <i>Eur. J. Immunol.</i> 28:973.
Gene ID	22035

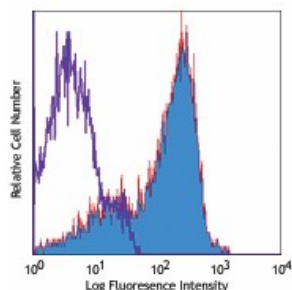
Related Protocols

[Cell Surface Flow Cytometry Staining Protocol](#)

Other Formats

Purified anti-mouse CD253 (TRAIL), Biotin anti-mouse CD253 (TRAIL), PE anti-mouse CD253 (TRAIL), APC anti-mouse CD253 (TRAIL), PerCP/Cyanine5.5 anti-mouse CD253 (TRAIL), PE/Cyanine7 anti-mouse CD253 (TRAIL), Ultra-LEAF™ Purified anti-mouse CD253 (TRAIL), TotalSeq™-A0925 anti-mouse CD253 (TRAIL)

Product Data



Mouse TRAIL transfected cells stained with N2B2 PE

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