SONY

Product Data Sheet

Biotin anti-mouse CD253 (TRAIL)

Catalog # / Size: 1146515 / 50 µg

Clone: N2B2

Isotype: Rat IgG2a, κ

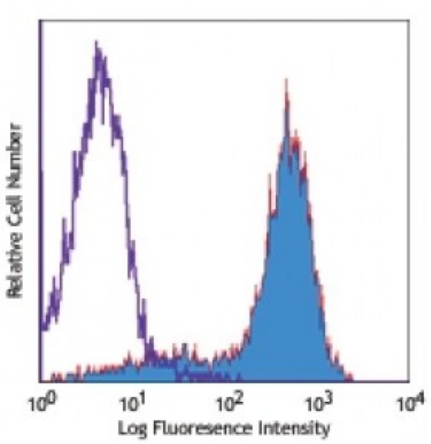
Immunogen: Mouse TRAIL-transfected 2PK-3 cells

Reactivity: Mouse

Preparation: The antibody was purified by affinity chromatography, and conjugated with biotin under optimal conditions. The solution is free of unconjugated biotin.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.

Concentration: 0.5



Mouse TRAIL transfected cells stained with biotinylated N2B2, followed by Sav-PE

Applications:

Applications: Flow Cytometry

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 microg per 10^6 cells in 100 microL volume. It is recommended that the reagent be titrated for optimal performance for each application.

Application Notes: Additional reported applications (for the relevant formats) include: *in vitro* 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:

1. Kayagaki N, *et al.* 1999. *J. Immunol.* 163:1906. (Block)
2. Sato K, *et al.* 2005. *J. Immunol.* 174:4025. (Block)
3. Joshi PS, *et al.* 2006. *J. Leukocyte Biol.* 80:1345.
4. Herold S, *et al.* 2008. *J. Exp. Med.* 205:3065. PubMed
5. Iannello A, *et al.* 2009. *J. Virol.* 83:5999. PubMed
6. Komatsu M, *et al.* 2003. *Blood* 101:3991. (Block)
7. Taieb J, *et al.* 2006. *Nature Med.* 12:214. (Block)
8. Lee SW, *et al.* 2013. *Biochem Biophys Res Commun.*291:1999. PubMed

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 *in vitro*.

Antigen References:

1. Kayagaki N, *et al.* 1999. *J. Immunol.* 163:1906.
2. Wiley SR, *et al. 1995. Immunity 3:673.*
3. Wu GS, et al. 1999. Cancer Res. 59:2770.
4. Mariani SM, et al. 1998. Eur. J. Immunol.

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