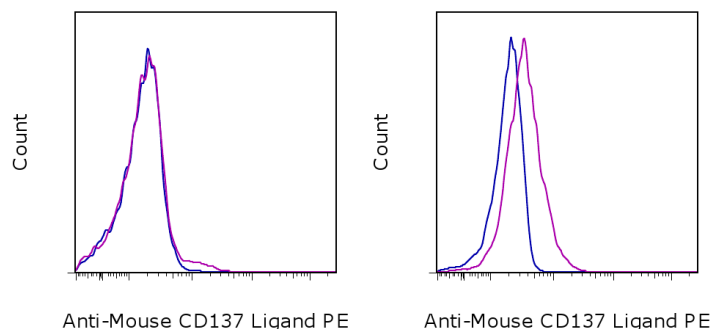


Anti-Mouse CD137 Ligand (4-1BB Ligand) PE

Catalog Number: 12-5901

Also known as: 4-1BBL, 41BBL, CD137L, CD137 Ligand, TNFSF9

RUO: For Research Use Only. Not for use in diagnostic procedures.



Staining of 3-day unstimulated (left) and 3-day Anti-Mouse IgM and Anti-Mouse CD40 stimulated (right) mouse splenocytes with 0.5 ug of Rat IgG2a kappa Isotype Control PE (cat. 12-4321) (blue histogram) or 0.5 ug of Anti-Mouse 4-1BB Ligand PE (purple histogram). Total viable CD45R (B220)+ cells were used for analysis.

Product Information

Contents: Anti-Mouse CD137 Ligand (4-1BB Ligand) PE

Catalog Number: 12-5901

Clone: TKS-1

Concentration: 0.2 mg/mL

Host/Isotype: Rat IgG2a, kappa

Formulation: aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer

Temperature Limitation: Store at 2-8°C. Do not freeze. Light sensitive material.

Batch Code: Refer to vial

Use By: Refer to vial

Caution, contains Azide

Description

The TKS-1 monoclonal antibody reacts with mouse 4-1BB Ligand (4-1BBL), a type II transmembrane protein and a member of the tumor necrosis factor superfamily. 4-1BBL is expressed by activated antigen presenting cells including B cells and macrophages. Interaction of 4-1BBL with 4-1BB (CDw137) is reported to deliver a costimulatory signal important in the T-APC interaction.

Applications Reported

The TKS-1 antibody has been reported for use in flow cytometric analysis.

Applications Tested

The TKS-1 antibody has been tested by flow cytometric analysis of resting and 2-3day (IgM+CD40)-activated mouse splenocytes. This can be used at less than or equal to 1 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10⁵ to 10⁸ cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

References

Zheng G, Wang B, Chen A. The 4-1BB costimulation augments the proliferation of CD4+CD25+ regulatory T cells. J Immunol. 2004 Aug 15;173(4):2428-34. (TKS-1, FC, PubMed)

Futagawa T, Akiba H, Kodama T, Takeda K, Hosoda Y, Yagita H, Okumura K. Expression and function of 4-1BB and 4-1BB ligand on murine dendritic cells. Int Immunol. 2002 Mar;14(3):275-86.

Akiba H, Miyahira Y, Atsuta M, Takeda K, Nohara C, Futagawa T, Matsuda H, Aoki T, Yagita H, Okumura K. Critical contribution of OX40 ligand to T helper cell type 2 differentiation in experimental leishmaniasis. J Exp Med. 2000 Jan 17;191(2):375-80.

Related Products

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12-4321 Rat IgG2a K Isotype Control PE (eBR2a)

16-0401 Anti-Mouse CD40 Functional Grade Purified (1C10)

17-0452 Anti-Human/Mouse CD45R (B220) APC (RA3-6B2)