

Product Information

Contents: Phycoerythrin (PE) anti-mouse 4-1BB Ligand (4-1BBL, 41BBL)

Catalog Number: 12-5901

Sizes: 50 ug, 100 ug, 200 ug

Formulation: Phosphate buffer pH 7.2,
150 mM NaCl, 0.09% NaN₃

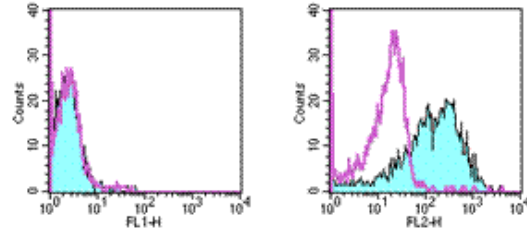
Storage Conditions: Store at 4°C.

DO NOT FREEZE.

LIGHT-SENSITIVE MATERIAL.

Clone: TKS-1

Isotype: Rat IgG2a, κ



Staining of 3-day unstimulated (left) and 3 day stimulated (anti-mouse IgM + anti-mouse CD40) (right) BALB/c splenocytes with 0.25 µg of PE rat IgG2a isotype control (cat. 12-4321) (open histogram) or 0.5 µg of PE TKS-1 (colored histogram). Total viable cells were used for analysis.

Available Formats of This Product

Cat. No.	Format	Excite (nm)	Emit (nm)	Reported Applications
12-5901	PE anti-mouse 4-1BB Ligand (4-1BBL, 41BBL, CD137L, CD137 Ligand)	488	575	FC
13-5901	Biotin anti-mouse 4-1BB Ligand (4-1BBL, 41BBL, CD137L, CD137 Ligand)	N/A	N/A	FC
14-5901	Affinity Purified anti-mouse 4-1BB Ligand (4-1BBL, 41BBL, CD137L, CD137 Ligand)	N/A	N/A	FA FC
16-5901	Functional Grade* Purified anti-mouse 4-1BB Ligand (4-1BBL, 41BBL, CD137L, CD137 Ligand)	N/A	N/A	FC

*Functional Grade™ (FG™): Azide-free, sterile-filtered, and endotoxin < 0.001 ng/µg.
Purified: Contains azide, not sterile-filtered, and not endotoxin tested.

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.

Usage

For research use only, not for diagnostic or therapeutic use. 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 million cells in a 100 µl total staining volume. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Related Products

- Cat. 12-4321 PE Rat IgG2a Isotype Control
- Cat. 13-5901 Biotin anti-mouse 4-1BB Ligand (4-1BBL, 41BBL, CD137L, CD137 Ligand) (clone TKS-1)
- Cat. 14-5901 Affinity Purified anti-mouse 4-1BB Ligand (4-1BBL, 41BBL, CD137L, CD137 Ligand) (clone TKS-1)
- Cat. 16-5901 Functional Grade Purified anti-mouse 4-1BB Ligand (4-1BBL, 41BBL, CD137L, CD137 Ligand) (clone TKS-1)

References

Akiba, H., Y. Miyahira, et al. (2000). "Critical contribution of OX40 ligand to T helper cell type 2 differentiation in experimental leishmaniasis." J Exp Med 191(2): 375-80.

Futagawa, T., H. Akiba, et al. 2002. Expression and function of 4-1BB and 4-1BB ligand on murine dendritic cells. Int Immunol 14(3): 275-86.

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