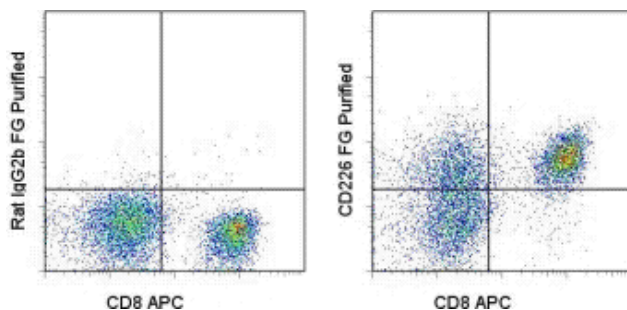


Anti-Mouse CD226 (DNAM-1) Functional Grade Purified

Catalog Number: 16-2261

Also Known As: DNAM1, PTA1, Tlisa

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



Staining of 3-day Anti-Mouse CD3/CD28-stimulated C57Bl/6 splenocytes with 0.25 ug of Rat IgG2b Kistotype Control Functional Grade Purified (cat. 16-4031) (left) or 0.25 ug of Anti-Mouse CD226 Functional Grade Purified (right) followed by Anti-Rat IgG Biotin (cat. 13-4813) and Streptavidin PE (cat. 12-4317) and subsequently with Anti-Mouse CD8a FITC (cat. 11-0081). Total viable cells were used for analysis.

Product Information

Contents: Anti-Mouse CD226 (DNAM-1) Functional Grade Purified

REF **Catalog Number:** 16-2261

Clone: 10E5

Concentration: 1 mg/mL

Host/Isotype: Rat IgG2b

Handling Conditions: Use in sterile environment.

Endotoxin Level: Less than 0.001 ng/ug antibody, as determined by the LAL assay.

Formulation: aqueous buffer, no sodium azide



Temperature Limitation: Store at 2-8°C.



Batch Code: Refer to Vial



Use By: Refer to Vial

Description

This 10E5 monoclonal antibody reacts with mouse CD226, which is also known as DNAM accessory molecule-1 (DNAM-1). CD226 is an adhesion molecule expressed primarily on T cells, including thymocytes. The highest levels of CD226 are found on naïve CD8 T cells. Moreover, expression of CD226 is regulated differentially in CD4 T cells. Under certain culture conditions, CD226 can be upregulated in Th1 and downregulated in Th2 and Th0 cells. This cell surface receptor can also be detected on natural killer cells, some B cell subsets, monocytes, and platelets. Interaction with its ligands, the poliovirus receptor (CD155) and CD112, results in adhesion and cell signaling events that promote innate and adaptive immunity, including differentiation, survival, and cytotoxicity.

The 10E5 monoclonal antibody has been reported to inhibit antigen-specific T cell proliferation and IFN-gamma production *in vivo*.

Applications Reported

This 10E5 antibody has been reported for use in flow cytometric analysis and functional assays.

Applications Tested

This 10E5 antibody has been tested by flow cytometric analysis of 3-day CD3/CD28-stimulated mouse splenocytes. This can be used at less than or equal to 0.5 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

Fang L, Zhang X, Miao J, Zhao F, Yang K, Zhuang R, Bujard H, Wei Y, Yang A, Chen L, Jin B. Expression of CD226 antagonizes apoptotic cell death in murine thymocytes. *J Immunol.* 2009 May 1;182(9):5453-60.

Dardalhon V, Schubart AS, Reddy J, Meyers JH, Monney L, Sabatos CA, Ahuja R, Nguyen K, Freeman GJ, Greenfield EA, Sobel RA, Kuchroo VK. CD226 is specifically expressed on the surface of Th1 cells and regulates their expansion and effector functions. *J Immunol.* 2005 Aug 1;175(3):1558-65. (10E5, FC, FA, Pubmed)

Tahara-Hanaoka S, Miyamoto A, Hara A, Honda S, Shibuya K, Shibuya A. Identification and characterization of murine DNAM-1 (CD226) and its poliovirus receptor family ligands. *Biochem Biophys Res Commun.* 2005 Apr 15;329(3):996-1000.

Related Products

11-0081 Anti-Mouse CD8a FITC (53-6.7)

12-4317 Streptavidin PE

13-4813 Anti-Rat IgG Biotin (Polyclonal)

16-0032 Anti-Mouse CD3 Functional Grade Purified (17A2)

16-0281 Anti-Mouse CD28 Functional Grade Purified (37.51)

16-4031 Rat IgG2b K Isotype Control Functional Grade Purified

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