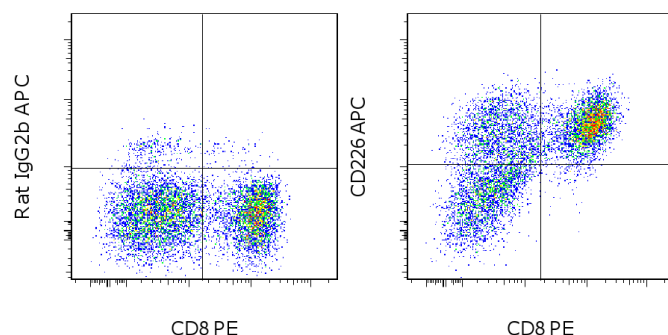


Anti-Mouse CD226 (DNAM-1) APC

Catalog Number: 17-2261

Also known as: DNAM1, PTA1, Tlisa

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



C57Bl/6 splenocytes were stimulated with Anti-Mouse CD3e Functional Grade Purified (cat. 16-0031) and Anti-Mouse CD28 Functional Grade Purified (cat. 16-0281) for 3 days and then stained with Anti-Mouse CD8a PE (cat. 12-0081) and 0.125 ug of Rat IgG2b K Isotype Control APC (cat. 17-4031) (left) or 0.125 ug of Anti-Mouse CD226 (DNAM-1) APC (right). Total viable cells were used for analysis.

Product Information

Contents: Anti-Mouse CD226 (DNAM-1) APC



Catalog Number: 17-2261

Clone: 10E5

Concentration: 0.2 mg/mL

Host/Isotype: Rat IgG2b, kappa



LOT



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

Contains sodium azide

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.

Applications Tested

This 10E5 antibody has been tested by flow cytometric analysis of stimulated mouse splenocytes. This can be used at less than or equal to 0.25 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)

Not for further distribution without written consent.

Copyright © 2000-2012 eBioscience, Inc.

Tel: 888.999.1371 or 858.642.2058 • Fax: 858.642.2046 • www.ebioscience.com • info@ebioscience.com

Anti-Mouse CD226 (DNAM-1) APC

Catalog Number: 17-2261

Also known as: DNAM1, PTA1, Tlisa

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

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

00-4222 Flow Cytometry Staining Buffer

16-0031 Anti-Mouse CD3e Functional Grade Purified (145-2C11)

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

17-4031 Rat IgG2b K Isotype Control APC

65-0863 Fixable Viability Dye eFluor® 450