
Anti-Human CD81 Functional Grade Purified

Catalog Number: 16-0819

Also known as: TAPA-1

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

Product Information

Contents: Anti-Human CD81 Functional Grade Purified

Catalog Number: 16-0819

Clone: 1D6-CD81

Concentration: 1 mg/mL

Host/Isotype: Mouse IgG1

Handling Conditions: Use in sterile environment.

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

Bioactivity: This 1D6-CD81 monoclonal antibody has been reported to induce adhesion and reduce cell proliferation.

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 1D6-CD81 monoclonal antibody reacts with human CD81, which is also known as Target of Anti-Proliferative Ab-1 (TAPA-1). A member of the tetraspanin superfamily of transmembrane proteins, CD81 is widely expressed on immune cells such as B, T, and NK cells, monocytes, and eosinophils. Studies suggest that the highest expression of CD81 can be found on germinal center B cells. This protein can also be detected on non-Hodgkin lymphomas and diffuse large B-cell lymphomas. On B cells, CD81 exists in a complex with CD19, CD21, and Leu13. CD81 plays a role in segregating the CD19/CD21-B cell receptor complexes to lipid rafts to activate signal transduction. Finally, CD81 is a receptor for hepatitis C virus.

The 1D6 monoclonal antibody has been reported to induce adhesion and reduce cell proliferation.

Applications Reported

This 1D6-CD81 monoclonal antibody has been reported for use in functional assays.

Applications Tested

This 1D6-CD81 antibody has been tested by flow cytometric analysis of normal human peripheral blood cells. 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

van Zelm MC, Smet J, Adams B, Mascart F, Schandené L, Janssen F, Ferster A, Kuo CC, Levy S, van Dongen JJ, van der Burg M. CD81 gene defect in humans disrupts CD19 complex formation and leads to antibody deficiency. *J Clin Invest.* 2010 Apr 1;120(4):1265-74.

Luo RF, Zhao S, Tibshirani R, Myklebust JH, Sanyal M, Fernandez R, Gratzinger D, Marinelli RJ, Lu ZS, Wong A, Levy R, Levy S, Natkunam Y. CD81 protein is expressed at high levels in normal germinal center B cells and in subtypes of human lymphomas. *Hum Pathol.* 2010 Feb;41(2):271-80.

Levy S, Todd SC, Maecker HT. CD81 (TAPA-1): a molecule involved in signal transduction and cell adhesion in the immune system. *Annu Rev Immunol.* 1998;16:89-109.

Schick MR, Levy S. The TAPA-1 molecule is associated on the surface of B cells with HLA-DR molecules. *J Immunol.* 1993 Oct 15;151(8):4090-7. (1D6, WB)

Related Products

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16-4714 Mouse IgG1 K Isotype Control Functional Grade Purified (P3.6.2.8.1)

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