Hamster Anti-Mouse CD81

Overview

Clone 2F7
Isotype Hamster (Armenian) IgG3
Immunogen Mouse epithelial cell line PAM212
Specificity Mouse CD81; Mr 26 kDa
Alternate Name(s) TAPA-1

Description

CD81, also known as TAPA-1, is an integral membrane protein expressed on a variety of cell types and has a high degree of sequence homology between human and mouse. CD81 is expressed on thymic stromal cells where it plays an important role in the transition of γδ T cells to more mature T cells with αβ T cell receptors. Immunohistochemical staining has revealed that its expression is localized to the subcapsular region of the thymus and, specifically, on cells that have distinct clustering patterns. It has been speculated that the ligand for CD81 is the pre-T cell receptor which is composed of a TCR β chain and glycoprotein pTα. The monoclonal antibody 2F7 can block thymocyte interaction with CD81 in vitro.

Applications

FC – Quality tested 1,3
IHC – Reported in literature 1
ICC – Reported in literature 5
IP – Reported in literature 1
Block – Reported in literature 1-4
Costim – Reported in literature 2

Working Dilutions

Flow Cytometry
- FITC and BIOT conjugates ≤ 1 μg/10^6 cells
- PE and APC conjugates ≤ 0.2 μg/10^6 cells
For flow cytometry, the suggested use of these reagents is in a final volume of 100 μL

Other Applications
Since applications vary, you should determine the optimum working dilution for the product that is appropriate for your specific need.
Handling and Storage

- The purified (UNLB) antibody is supplied as 0.5 mg of purified immunoglobulin in 1.0 mL of borate buffered saline, pH 8.2. No preservatives or amine-containing buffer salts added. Store at 2-8°C.
- The fluorescein (FITC) conjugate is supplied as 0.5 mg in 1.0 mL of PBS/NaNO3. Store at 2-8°C.
- The biotin (BIOT) conjugate is supplied as 0.5 mg in 1.0 mL of PBS/NaNO3. Store at 2-8°C.
- The R-phycoerythrin (PE) and allophycocyanin (APC) conjugates are supplied as 0.1 mg in 1.0 mL of PBS/NaNO3 and a stabilizing agent. Store at 2-8°C. **Do not freeze!**
- The low endotoxin, azide-free (LE/AF) antibody is supplied as 0.5 mg of purified immunoglobulin in 1.0 mL of PBS. **Aliquot and store at or below -20°C.**
- Protect fluorochrome-conjugated forms from light. Reagents are stable for the period shown on the label if stored as directed.

Warning

Some reagents contain sodium azide. Please refer to product specific (M)SDS.

References