

Mouse CD81/TAPA-1 Monoclonal Antibody | anti-CD81 antibody

CD81/TAPA-1

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA214619	Mouse	Human, Mouse, Rat. Others not known.	Immunohistochemistry, Western Blot, Immunofluorescence, Flow Cytometry, Functional Assay, Functional Assay

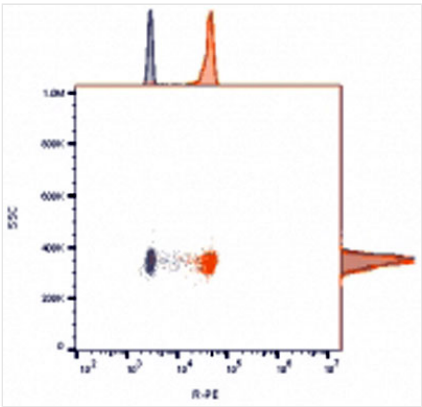
PRODUCT SYNONYMS

CD81/TAPA-1; Monoclonal Antibody; CD81; Target of the antiproliferative antibody 1 (TAPA-1); Tetraspanin-28; Tspan-28; anti-CD81 antibody

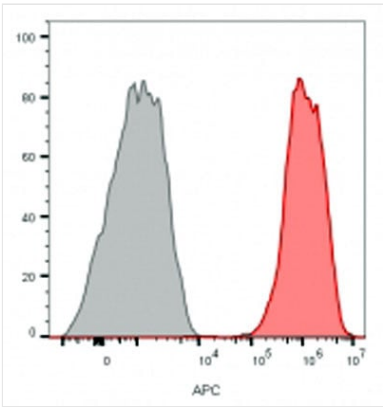
PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human, Mouse, Rat. Others not known.
Clonality	Monoclonal
Isotype	IgG1, kappa
Clone Number	1.3.3.22
Specificity	Recognizes a protein of 26kDa, identified as CD81 (Workshop VI; Code CD81.1)). CD81 has a very broad cellular distribution, being expressed on T- and B-lymphocytes, NK cells, thymocytes, eosinophils, fibroblasts, epithelial and endothelial cells. Neutrophils, erythrocytes and platelets are negative, while monocytes are variably positive. CD81 is a member of a family of tetraspans transmembrane proteins, including CD9, CD37, CD53, CD63, and CD82. It associates with CD19, CD21, Leu 13, and integrins on cell membrane and is involved in signal transduction in B lymphocyte development and cell adhesion. CD81 also acts as a receptor for the envelope protein E2 of chronic hepatitis C virus. Antibodies to CD81 have anti-proliferative effects on different lymphoid cell lines, particularly those derived from large cell lymphomas.
Form/Format	200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.
Sequence Length	165
Applicable Applications for anti-CD81 antibody	IHC (Immunohistochemistry), WB (Western Blot), IF (Immunofluorescence), FCM/FACS (Flow Cytometry), FA (Functional Assay)
Immunogen	Recombinant full-length human CD81 protein
Cellular Localization	Cell Surface
Positive Control	MCF-7, Ramos, Daudi or Jurkat cells. Human lymphocytes. Human tonsil or liver.
Hu-chromosome Location	11p15.5
Positive Control	Ramos, Daudi, Raji, U266, HUT-78, HUT-102, Jurkat, HL-60, KG1a, A293, A431, MG63, and human lymphocytes. Tonsil or Liver.
Preparation and Storage	Antibody with azide - store at 2 to 8 degree C. Non-hazardous. No MSDS required.

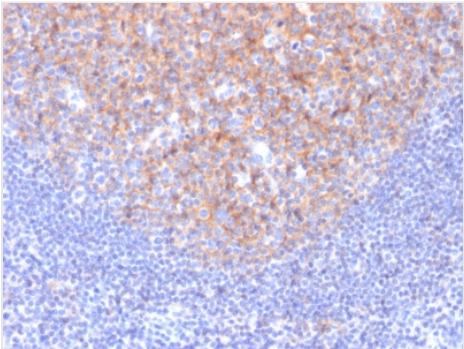
IMAGES



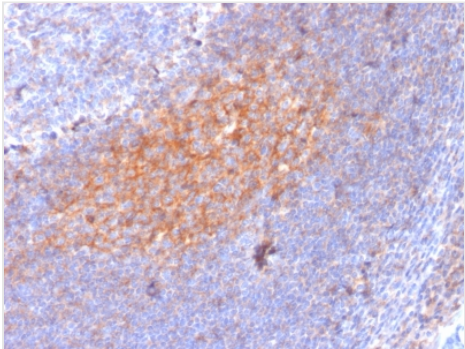
Application Data



Application Data



IHC (Immunohistochemistry)
Formalin-fixed, paraffin-embedded human Tonsil stained with CD81 Mouse Monoclonal Antibody (1.3.3.22).



IHC (Immunohistochemistry)
Formalin-fixed, paraffin-embedded human Lymph Node stained with CD81 Mouse Monoclonal Antibody (1.3.3.22).

ADDITIONAL INFORMATION

References	Kishimoto T et al. eds. Leukocyte Typing VI, p187-189, Garland Publishing, New York, 1997. Takahashi S et al. TAPA-1, the target of an antiproliferative antibody, is associated on the cell surface with the Leu-13 antigen. J Immunol 1990, 145(7):2207-2213. Mannion BA et al. Transmembrane-4 superfamily proteins CD81 (TAPA-1), CD82, CD63, and CD53 specifically associated with integrin α 5 β 1 (CD49d/CD29). J Immunol 1996, 157(5):2039-2047. Sato S et al. Regulation of B lymphocyte development and activation by the CD19/CD21/CD81/Leu 13 complex requires the cytoplasmic domain of CD19. J Immunol 1997, 159(7):3278-3287. Horvath G et al. CD19 is linked to the integrin-associated tetraspans CD9, CD81, and CD82. J Biol Chem 1998, 273(46):30537-30543. Todd SC et al. CD81 expressed on human thymocytes mediates integrin activation and interleukin 2-dependent proliferation. J Exp Med 1996, 184(5):2055-2060. Levy S et al. CD81 (TAPA-1): a molecule involved in signal transduction and cell adhesion in the immune system. Annu Rev Immunol 1998, 16:89-109. Pileri P et al. Binding of hepatitis C virus to CD81. Science 1998, 282:938-941. Schlossman SF et al. eds. Leukocyte Typing V, Oxford University Press, Oxford, 1995.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	663071018
NCBI GeneID	975
NCBI Accession #	NP_001284578.1
NCBI GenBank Nucleotide #	NM_001297649.1
UniProt Accession #	P60033; P18582; Q5U0J6
Molecular Weight	26kDa
NCBI Official Full Name	CD81 antigen isoform 2

NCBI Official Synonym Full Names	CD81 molecule
NCBI Official Symbol	CD81
NCBI Official Synonym Symbols	S5.7; CVID6; TAPA1; TSPAN28
NCBI Protein Information	CD81 antigen
UniProt Protein Name	CD81 antigen
UniProt Gene Name	CD81
UniProt Synonym Gene Names	TAPA1; TSPAN28; Tspan-28

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/cd81-tapa-1-antibody-clone-1-3-3-22-immunohistochemistry-western-blot-immunofluorescence-flow-cytometry-functional-assay-elisa/214619>