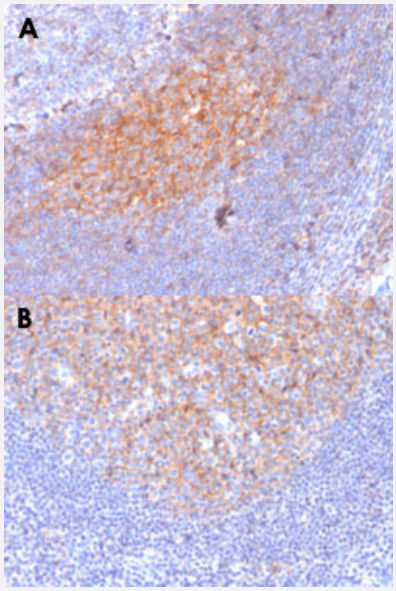
CD81 monoclonal antibody, clone 1.3.3.22

Catalog # MAB15075 Size 100 ug

Applications



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical staining (Formalin-fixed paraffin-embedded sections) of human lymph node (A) and human tonsil (B) with CD81 monoclonal antibody, clone 1.3.3.22 (Cat # MAB15075).

Specification

Product Description	Mouse monoclonal antibody raised against native human CD81.
Immunogen	B cell line derived from a Burkitt lymphoma.
Host	Mouse
Theoretical MW (kDa)	26
Reactivity	Human
Form	Liquid
Purification	Protein A/G purification
Isotype	IgG1, kappa

Recommend Usage	Flow Cytometry (0.5-1 ug/10^6 cells) Functional Study Immunofluorescence (0.5-1 ug/mL) Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) (0.5-1 ug/mL) Western Blotting (0.5-1 ug/mL) The optimal working dilution should be determined by the end user.
Storage Buffer	In 10 mM PBS.
Storage Instruction	Store at -20 to -80°C. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot
- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

  Immunohistochemical staining (Formalin-fixed paraffin-embedded sections) of human lymph node (A) and human tonsil (B) with CD81 monoclonal antibody, clone 1.3.3.22 (Cat # MAB15075).
- Immunofluorescence
- Functional Study
- Flow Cytometry

Gene Info — CD81

Entrez GeneID	975
Protein Accession#	P60033
Gene Name	CD81
Gene Alias	S5.7, TAPA1, TSPAN28
Gene Description	CD81 molecule
Omim ID	186845
Gene Ontology	Hyperlink

Gene Summary	The protein encoded by this gene is a member of the transmembrane 4 superfamily, also known as the tetraspanin family. Most of these members are cell-surface proteins that are characterized by the presence of four hydrophobic domains. The proteins mediate signal transduction events that play a role in the regulation of cell development, activation, growth and motility. This encoded protein is a cell surface glycoprotein that is known to complex with integrins. This protein appears to promote muscle cell fusion and support myotube maintenance. Also it may be involved in signal transduction. This gene is localized in the tumor-suppressor gene region and thus it is a candidate gene for malignancies. [provided by RefSeq
Other Designations	26 kDa cell surface protein TAPA-1|CD81 antigen|CD81 antigen (target of antiproliferative antibody 1)|target of antiproliferative antibody 1

Publication Reference

- CD19 is linked to the integrin-associated tetraspans CD9, CD81, and CD82.

  Horváth G, Serru V, Clay D, Billard M, Boucheix C, Rubinstein E.

  The Journal of Biological Chemistry 1998 Nov; 273(46):30537.

  Application: Flow Cyt, Human, Daudi, NALM-6, Raji cells

- Binding of hepatitis C virus to CD81.

  Pileri P, Uematsu Y, Campagnoli S, Galli G, Falugi F, Petracca R, Weiner AJ, Houghton M, Rosa D, Grandi G, Abrignani S.

  Science 1998 Oct; 282(5390):938.

  Application: Func, IP, Human, EBV-B cells

- CD81 (TAPA-1): a molecule involved in signal transduction and cell adhesion in the immune system.

  Levy S, Todd SC, Maecker HT.

  Annual Review of Immunology 1998 Apr; 16:89.

  Application: Flow Cyt, Func, IHC, Human, Mouse, Rat, Brains, Tumors, Immune cells, Tissues

- Regulation of B lymphocyte development and activation by the CD19/CD21/CD81/Leu 13 complex requires the cytoplasmic domain of CD19.

  Sato S, Miller AS, Howard MC, Tedder TF.

  The Journal of Immunology 1997 Oct; 159(7):3278.

- CD81 expressed on human thymocytes mediates integrin activation and interleukin 2-dependent proliferation.

  Todd SC, Lipps SG, Crisa L, Salomon DR, Tsoukas CD.

  The Journal of Experimental Medicine 1996 Nov; 184(5):2055.

  Application: Flow Cyt, IP, WB-Ce, Human, Human thymocytes

- Transmembrane-4 superfamily proteins CD81 (TAPA-1), CD82, CD63, and CD53 specifically associated with integrin alpha 4 beta 1 (CD49d/CD29).

  Mannion BA, Berditchevski F, Kraeft SK, Chen LB, Hemler ME.

  The Journal of Immunology 1996 Sep; 157(5):2039.

- TAPA-1, the target of an antiproliferative antibody, is associated on the cell surface with the Leu-13 antigen.

  Takahashi S, Doss C, Levy S, Levy R.

  The Journal of Immunology 1990 Oct; 145(7):2207.

Pathway

- B cell receptor signaling pathway

Disease

- Atherosclerosis
- Carcinoma
- Genetic Predisposition to Disease
- Hematologic Diseases
- Hepatitis C
- Hodgkin Disease
- Kidney Failure
- Liver Neoplasms
- Lung Neoplasms
- Lymphoproliferative Disorders
- Multiple Myeloma
- Obesity
- Occupational Diseases
- Pulmonary Disease

- Urinary Bladder Neoplasms
- Waldenstrom Macroglobulinemia
- Werner syndrome