



Antibodies

11-558-C100

Monoclonal Antibody to CD81 Purified Antibody (0.1 mg)

Clone:	M38
Isotype:	Mouse IgG1
Specificity:	The antibody M38 reacts with CD81, a 25 kDa member of the tetraspanin family, expressed on majority of cells.
Regulatory Status:	RUO
Immunogen:	MOLT-4 (human T-ALL cell line)
Species Reactivity:	Human, Feline (Cat), Rabbit
Application:	Flow Cytometry Recommended dilution: 1 µg/ml Immunoprecipitation Western Blotting Immunohistochemistry (paraffin sections) Immunocytochemistry Functional Application In human MOLT-4 T-cell line the antibody M38 inhibits syncytium formation induced by coculture with human T-cell leukemia virus type 1 (HTLV-1)-positive human T-cell lines.
Purity:	> 95% (by SDS-PAGE)
Purification:	Purified by protein-A affinity chromatography
Concentration:	1 mg/ml
Storage Buffer:	Phosphate buffered saline (PBS) with 15 mM sodium azide, approx. pH 7.4
Storage / Stability:	Store at 2-8°C. Do not freeze. Do not use after expiration date stamped on vial label.
Expiration:	See vial label
Lot Number:	See vial label
Background:	CD81 (TAPA-1), a member of the tetraspanin family, is expressed on virtually all nucleated cells, but above all on germinal center B cells. CD81 forms complexes with other tetraspanin proteins, integrins, coreceptors, MHC class I and II molecules, and influences adhesion, morphology, activation, proliferation and differentiation of B, T and other cells – e.g. in muscles CD81 promotes cell fusion and myotube maintenance. CD81 has been also identified as a receptor for the hepatitis C virus.

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**Antibodies****References:**

*Fukudome K, Furuse M, Imai T, Nishimura M, Takagi S, Hinuma Y, Yoshie O: Identification of membrane antigen C33 recognized by monoclonal antibodies inhibitory to human T-cell leukemia virus type 1 (HTLV-1)-induced syncytium formation: altered glycosylation of C33 antigen in HTLV-1-positive T cells. *J Virol.* 1992 Mar;66(3):1394-401.

*Imai T, Yoshie O: C33 antigen and M38 antigen recognized by monoclonal antibodies inhibitory to syncytium formation by human T cell leukemia virus type 1 are both members of the transmembrane 4 superfamily and associate with each other and with CD4 or CD8 in T cells. *J Immunol.* 1993 Dec 1;151(11):6470-81.

*Imai T, Kakizaki M, Nishimura M, Yoshie O: Molecular analyses of the association of CD4 with two members of the transmembrane 4 superfamily, CD81 and CD82. *J Immunol.* 1995 Aug 1;155(3):1229-39.

*Escola JM, Kleijmeer MJ, Stoorvogel W, Griffith JM, Yoshie O, Geuze HJ: Selective enrichment of tetraspan proteins on the internal vesicles of multivesicular endosomes and on exosomes secreted by human B-lymphocytes. *J Biol Chem.* 1998 Aug 7;273(32):20121-7."

*Stehlíková O, Chovancová J, Tichý B, Krejčí M, Brychtová Y, Panovská A, Francová Skuhrová H, Burčková K, Borský M, Loja T, Mayer J, Pospíšilová S, Doubek M: Detecting minimal residual disease in patients with chronic lymphocytic leukemia using 8-color flow cytometry protocol in routine hematological practice. *Int J Lab Hematol.* 2013 Sep 13. doi: 10.1111/ijlh.12149.

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