ARG62934
anti-CD81 antibody [M38]

Package: 100 µg
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody [M38] recognizes CD81
Tested Reactivity	Hu, Cat, Rb
Tested Application	FACS, FuncSt, ICC/IF, IHC-P, IP, WB
Specificity	The clone M38 reacts with CD81, a 25 kDa member of the tetraspanin family, expressed on majority of cells.
Host	Mouse
Clonality	Monoclonal
Clone	M38
Isotype	IgG1
Target Name	CD81
Species	Human
Immunogen	MOLT-4 (human T-ALL cell line)
Conjugation	Un-conjugated
Alternate Names	CD antigen CD81; TAPA1; Tspan-28; S5.7; CD81 antigen; Target of the antiproliferative antibody 1; Tetraspanin-28; 26 kDa cell surface protein TAPA-1; CVID6; TSPAN28

Application Instructions

Application table

Application	Dilution
FACS	1 µg/ml
FuncSt	Assay-dependent
ICC/IF	1:25 - 1:200
IHC-P	Assay-dependent
IP	Assay-dependent
WB	1 - 2 µg/ml

Application Note

Functional Application: In human MOLT-4 T-cell line the antibody M38 inhibits syncytium formation induced by co-culturing with human T-cell leukemia virus type 1 (HTLV-1)-positive human T-cell lines.
* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Properties

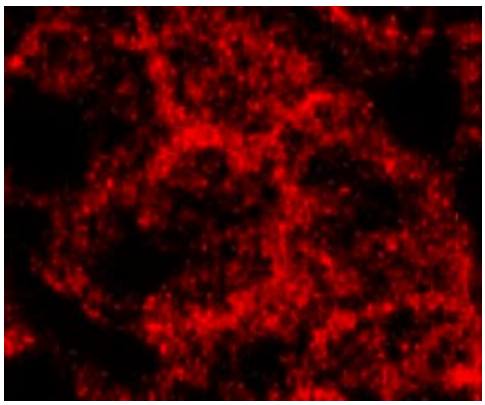
Form	Liquid
Purification	Purified from hybridoma culture supernatant by protein-A affinity chromatography.

Purity	> 95% (by SDS-PAGE)
Buffer	PBS (pH 7.4) and 15 mM Sodium azide
Preservative	15 mM Sodium azide
Concentration	1 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

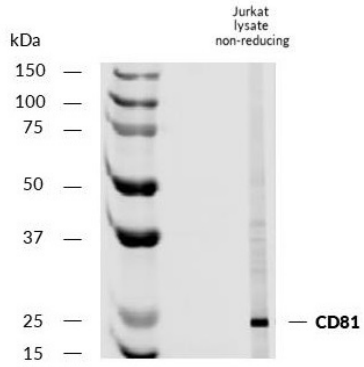
Database links	GeneID: 975 Human Swiss-port # P60033 Human
Gene Symbol	CD81
Gene Full Name	CD81 molecule
Background	CD81 (TAPA-1), a member of the tetraspanin family, is expressed on virtually all nucleated cells, but above all on germinal center B cells. CD81 forms complexes with other tetraspanin proteins, 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.
Function	May play an important role in the regulation of lymphoma cell growth. Interacts with a 16-kDa Leu-13 protein to form a complex possibly involved in signal transduction. May act as the viral receptor for HCV. [UniProt]
Highlight	Related products: CD81 antibodies; Anti-Mouse IgG secondary antibodies; Related news: Tools for studying Exosomes Detecting exosomal PD-L1 secreted by cancer cells New antibodies for exosome isolation
Research Area	Immune System antibody; Microbiology and Infectious Disease antibody
Calculated Mw	26 kDa
PTM	Not glycosylated.

Images



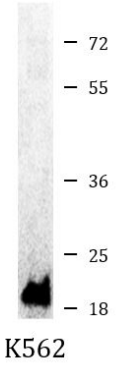
ARG62934 anti-CD81 antibody [M38] ICC/IF image

Immunofluorescence: Huh7.5 cells were fixed with 3% PFA, permeabilized by 0.05% saponin and blocked with 0.5% BSA/PBS. Cells were stained with ARG62934 anti-CD81 antibody [M38] for 1 hour at RT.



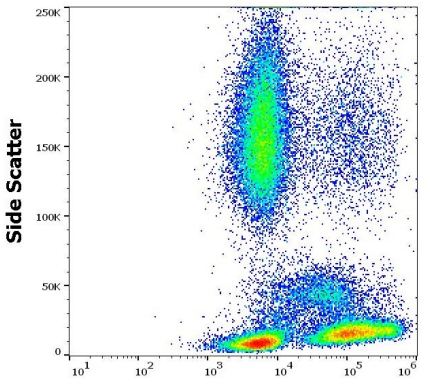
ARG62934 anti-CD81 antibody [M38] WB image

Western blot: Jurkat cell lysate stained with ARG62934 anti-CD81 antibody [M38] at 2 µg/ml dilution, under non-reducing condition.



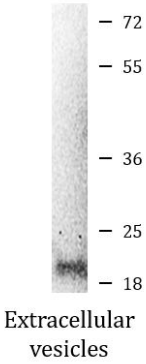
ARG62934 anti-CD81 antibody [M38] WB image

Western blot: K562 cell lysate stained with ARG62934 anti-CD81 antibody [M38] at 1:1000 dilution, under non-reducing condition.



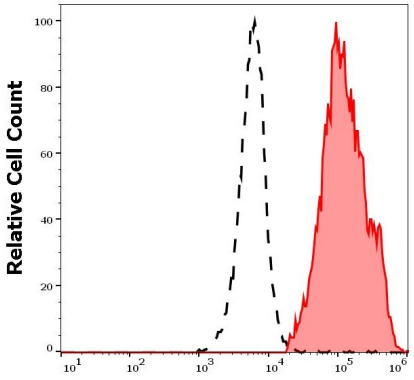
ARG62934 anti-CD81 antibody [M38] FACS image

Flow Cytometry: Human peripheral blood stained with ARG62934 anti-CD81 antibody [M38] at 4 µg/ml dilution, followed by APC-conjugated Goat anti-Mouse antibody.



ARG62934 anti-CD81 antibody [M38] WB image

Western blot: Extracellular vesicles isolated from K562 cells. Sample was stained with ARG62934 anti-CD81 antibody [M38] at 1:1000 dilution, under non-reducing condition.



ARG62934 anti-CD81 antibody [M38] FACS image

Flow Cytometry: Separation of human lymphocytes (red-filled) from neutrophil granulocytes (black-dashed). Human peripheral whole blood stained with ARG62934 anti-CD81 antibody [M38] at 4 µg/ml dilution, followed by APC-conjugated Goat anti-Mouse antibody.