

Datasheet for ABIN4888503

anti-CD81 antibody

3 Images

[Go to Product page](#)

Overview

Quantity:	0.1 mg
Target:	CD81
Reactivity:	Human, Rabbit, Cat
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This CD81 antibody is un-conjugated
Application:	Flow Cytometry (FACS), Western Blotting (WB), Immunoprecipitation (IP), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Functional Studies (Func), Immunocytochemistry (ICC)

Product Details

Immunogen:	MOLT-4 (human T-ALL cell line)
Clone:	M38
Isotype:	IgG1
Specificity:	The antibody M38 reacts with an extracellular epitope of CD81, a 25 kDa member of the tetraspanin family, expressed on majority of cells.
Cross-Reactivity (Details):	Human, Feline (Cat), Rabbit
Purification:	Purified by protein-A affinity chromatography.
Purity:	> 95 % (by SDS-PAGE)
Endotoxin Level:	Endotoxin level is less than 0.01 EU/μg of the protein, as determined by the LAL test.

Target Details

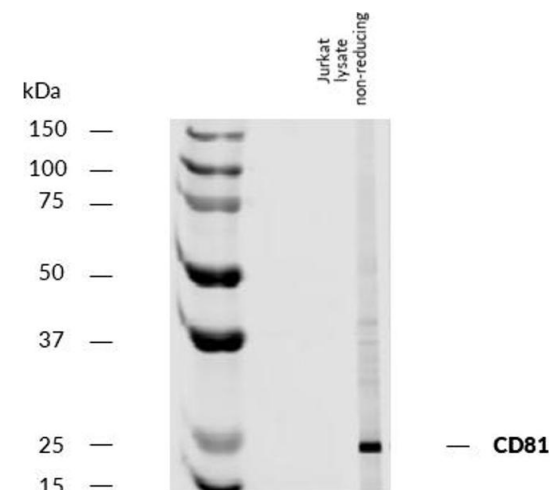
Target:	CD81
Alternative Name:	CD81 (CD81 Products)
Background:	CD81 Molecule,CD81 (TAPA-1), a member of the tetraspanin family, is expressed on virtually all nucleated cells, but above all on germinal center B cells. CD81 forms complexes with other tetraspanin proteins, integrins, coreceptors, MHC class 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.,S5.7, CVID6, TAPA1, TSPAN28
Gene ID:	975
UniProt:	P60033
Pathways:	Inositol Metabolic Process , Hepatitis C

Application Details

Application Notes:	<p>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.</p> <p>Flow cytometry: recommended dilution: 1 µg/mL.</p> <p>Western blotting: recommended dilution: 1-2 µg/mL, positive control: Jurkat cells, non-reducing conditions.</p>
Restrictions:	For Research Use only

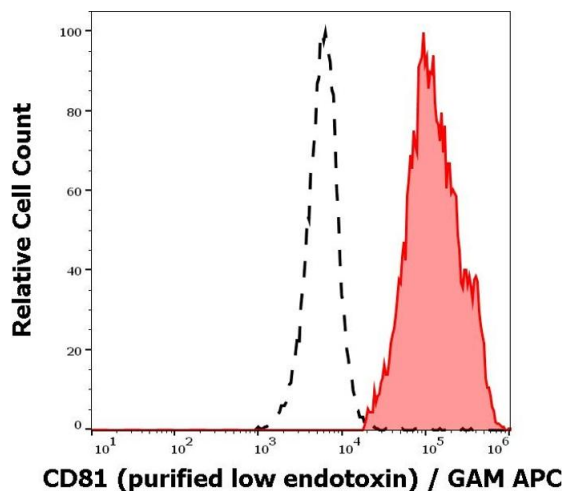
Handling

Concentration:	1 mg/mL
Buffer:	Phosphate buffered saline (PBS), pH 7.4
Preservative:	Azide free
Storage:	4 °C
Storage Comment:	Store at 2-8°C. Do not freeze.



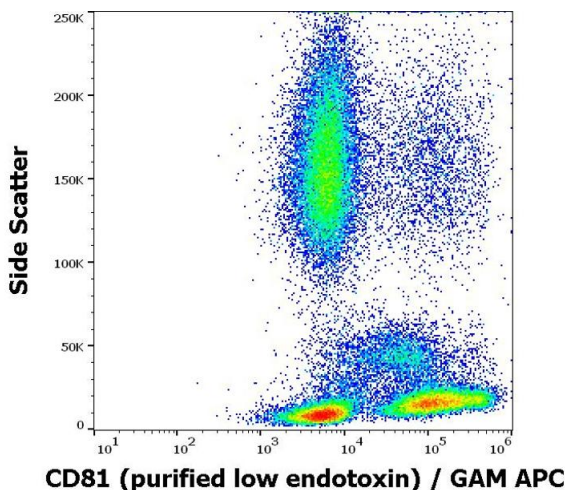
Western Blotting

Image 1. Western blotting analysis of human CD81 using mouse monoclonal antibody M38 on lysate of Jurkat cell line under non-reducing conditions. Nitrocellulose membrane was probed with 2 µg/mL of mouse anti-human CD81 monoclonal antibody M38 followed by IRDye800-conjugated anti-mouse secondary antibody. A specific band was detected for CD81 at approximately 25 kDa.



Flow Cytometry

Image 2. Separation of human lymphocytes (red-filled) from neutrophil granulocytes (black-dashed) in flow cytometry analysis (surface staining) of human peripheral whole blood stained using anti-human CD81 (M38) purified antibody (low endotoxin, concentration in sample 4 µg/mL) GAM APC.



Flow Cytometry

Image 3. Flow cytometry surface staining pattern of human peripheral blood stained using anti-human CD81 (M38) purified antibody (low endotoxin, concentration in sample 4 µg/mL) GAM APC.