

Datasheet for ABIN457431

anti-CD81 antibody**3** Images**6** Publications[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)), 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)

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

Handling

Concentration:	1 mg/mL
Buffer:	Phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Do not freeze.
Storage:	4 °C
Storage Comment:	Store at 2-8°C. Do not freeze.

Publications

Product cited in:	Oka, Kobayashi, Matsumura, Nishio, Nakano, Okamura, Okochi, Minamisawa, Shiba, Saeki: "New
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Role for Growth/Differentiation Factor 15 in the Survival of Transplanted Brown Adipose Tissues in Cooperation with Interleukin-6." in: **Cells**, Vol. 9, Issue 6, (2020) ([PubMed](#)).

Matsumura, Minamisawa, Suga, Kishita, Akagi, Ichiki, Ichikawa, Shiba: "Subtypes of tumour cell-derived small extracellular vesicles having differently externalized phosphatidylserine." in: **Journal of extracellular vesicles**, Vol. 8, Issue 1, pp. 1579541, (2019) ([PubMed](#)).

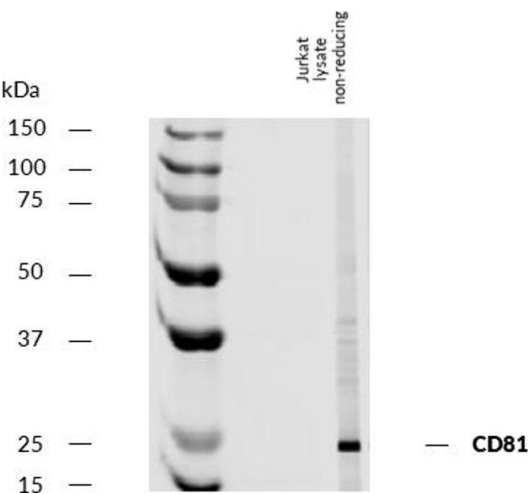
Escola, Kleijmeer, Stoorvogel, Griffith, Yoshie, Geuze: "Selective enrichment of tetraspan proteins on the internal vesicles of multivesicular endosomes and on exosomes secreted by human B-lymphocytes." in: **The Journal of biological chemistry**, Vol. 273, Issue 32, pp. 20121-7, (1998) ([PubMed](#)).

Imai, Kakizaki, Nishimura, Yoshie: "Molecular analyses of the association of CD4 with two members of the transmembrane 4 superfamily, CD81 and CD82." in: **Journal of immunology (Baltimore, Md. : 1950)**, Vol. 155, Issue 3, pp. 1229-39, (1995) ([PubMed](#)).

Imai, Yoshie et al.: "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 ..." in: **Journal of immunology (Baltimore, Md. : 1950)**, Vol. 151, Issue 11, pp. 6470-81, (1994) ([PubMed](#)).

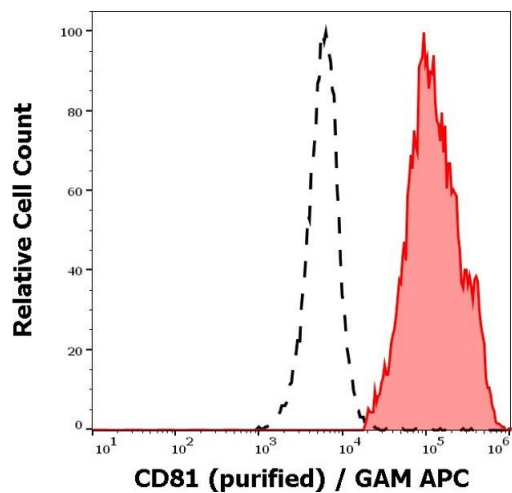
There are more publications referencing this product on: [Product page](#)

Images



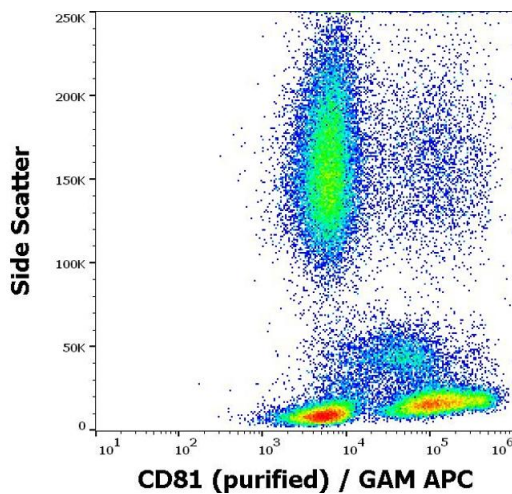
Western Blotting

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 (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 (concentration in sample 4 µg/mL) GAM APC.