

Product datasheet for **TA336485**

TAPA1 (CD81) Mouse Monoclonal Antibody [Clone ID: 1D6]

Product data:

Product Type:	Primary Antibodies
Clone Name:	1D6
Applications:	CyTOF-ready, Dot, ELISA, FC, ICC/IF, IHC, IP, WB
Recommended Dilution:	Western Blot: 1 - 2 ug/mL, Immunocytochemistry/ Immunofluorescence: 1:10 - 1:100, Immunoprecipitation: 1:10 - 1:500, Dot Blot, Flow Cytometry: 0.2 - 1 ug per million cells, CyTOF-ready, ELISA, Immunohistochemistry: 1:100, Immunohistochemistry-Paraffin: 1:100
Reactivity:	Human, Goat, Primate, Sheep
Host:	Mouse
Isotype:	IgG1, kappa
Clonality:	Monoclonal
Immunogen:	Aggregated OCI-Ly8 human B cell line
Formulation:	PBS containing 0.05% BSA, 0.05% Sodium Azide. Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Concentration:	lot specific
Purification:	Protein G purified
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	CD81 molecule
Database Link:	NP_004347 Entrez Gene 975 Human P60033



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Background:

TAPA1, also known as CD81, is found in the plasma membrane in lymphocytes and is believed to play an important role in the regulation of lymphoma cell growth. This protein is primarily found on B and T cells (lymphocytes) in humans. TAPA1 appears to be involved in a variety of cellular processes including activation, proliferation and differentiation. It is believed to act as a viral receptor for HCV and may play a crucial role in cell signaling from its place embedded in the plasma membrane. Mutations affecting CD81 can cause immunodeficiency- a disease that is characterized by antibody deficiency, hypogammaglobulinemia, recurrent bacterial infections due to a lack of an immune response.

Synonyms:

CVID6; S5.7; TAPA1; TSPAN28

Note:

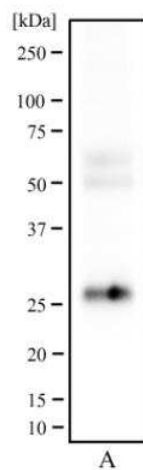
NB100-65805 is a potent TAPA1/CD81 reagent, it induces homotypic adhesion and has powerful anti-proliferative effects. For Flow Cytometry: Use 10 ul of the suggested working dilution to label 10^6 cells in 100 ul.

Protein Families:

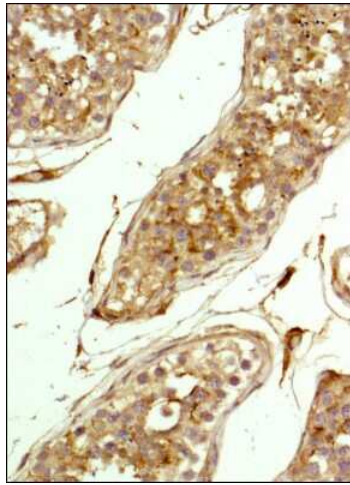
Druggable Genome, ES Cell Differentiation/IPS, Transmembrane

Protein Pathways:

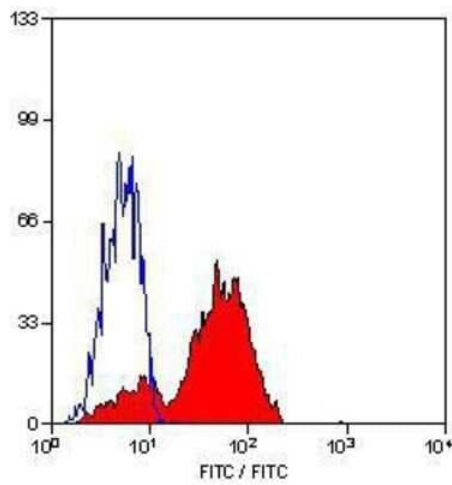
B cell receptor signaling pathway

Product images:

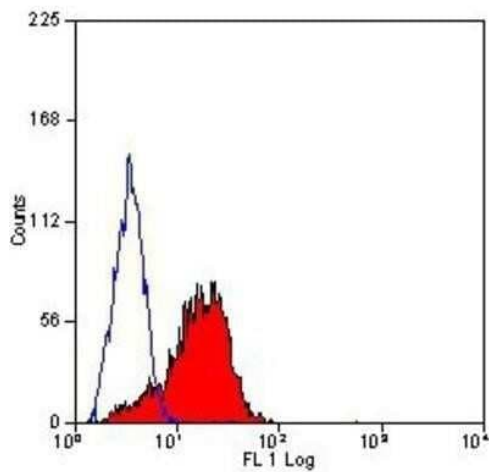
Western Blot: CD81 Antibody (1D6) TA336485 - Analysis of human testis tissue (A) using CD81 antibody at a concentration of 2 ug/mL.



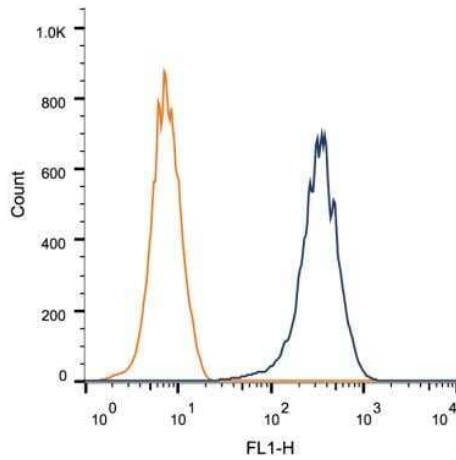
Immunohistochemistry-Paraffin: CD81 Antibody (1D6) TA336485 - Staining of TAPA1 in human testis using DAB with hematoxylin counterstain.



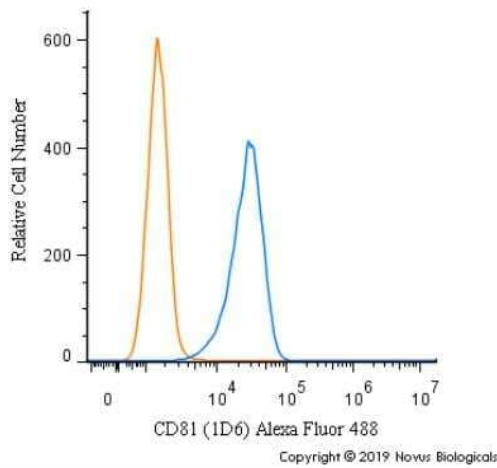
Flow Cytometry: CD81 Antibody (1D6) TA336485 - Staining of human peripheral blood lymphocytes.



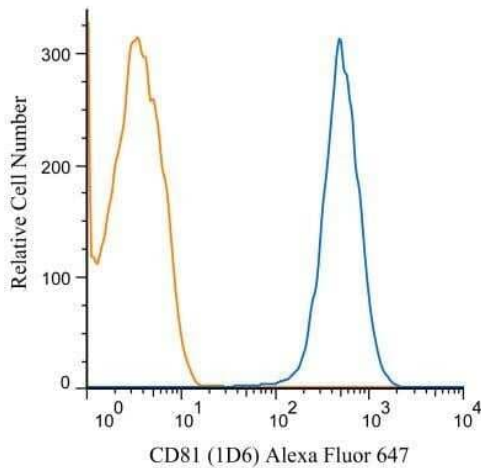
Flow Cytometry: CD81 Antibody (1D6) TA336485 - Analysis using the FITC conjugate of TA336485. Staining of human peripheral blood lymphocytes.



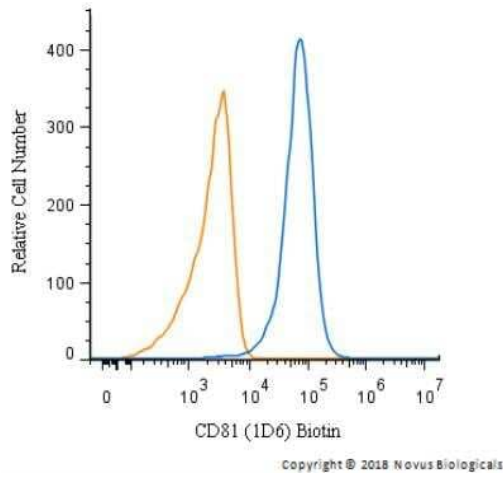
Flow Cytometry: CD81 Antibody (1D6) TA336485 - Surface flow cytometric staining of 1×10^6 PBMC cells using CD81 antibody (dark blue). Isotype control shown in orange. An antibody concentration of $1 \mu\text{g}/1 \times 10^6$ cells was used.



Flow Cytometry: CD81 Antibody (1D6) TA336485 - A surface stain was performed on Jurkat cells with CD81 Antibody [1D6] TA336485AF488 (blue) and a matched isotype control (orange). Cells were incubated in an antibody dilution of $5 \mu\text{g}/\text{mL}$ for 20 minutes at room temperature. Both antibodies were conjugated to Alexa Fluor 488.



Flow Cytometry: CD81 Antibody (1D6) TA336485 - A surface stain was performed on Jurkat cells with CD81 (1D6) antibody TA336485AF647 (blue) and a matched isotype control NBP2-27287AF647 (orange). Cells were incubated in an antibody dilution of $2 \mu\text{g}/\text{mL}$ for 20 minutes at room temperature. Both antibodies were conjugated to Alexa Fluor 647.



Flow Cytometry: CD81 Antibody (1D6) TA336485 - A surface stain was performed on Jurkat Cells with CD81 Antibody (1D6) TA336485B and a matched isotype control. Both antibodies were conjugated to biotin. Cells were incubated in an antibody dilution of 1 ug/mL for 20 minutes at room temperature, followed by Streptavidin - R-Phycoerythrin Protein (2012-1000, Novus Biologicals).