

Datasheet for ABIN5693257
anti-CD81 antibody (AA 113-201)

4 Images

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Overview

Quantity:	100 µg
Target:	CD81
Binding Specificity:	AA 113-201
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Application:	Flow Cytometry (FACS), Immunohistochemistry (IHC), ELISA, Immunocytochemistry (ICC)

Product Details

Brand:	Picoband™
Immunogen:	E. coli-derived human TAPA1 recombinant protein (Position: F113-K201).
Cross-Reactivity (Details):	No cross reactivity with other proteins.
Characteristics:	Rabbit IgG polyclonal antibody for TAPA1 detection. Tested with IHC-P, IHC-F, ICC, FCM, Direct ELISA in Human, Mouse, Rat.

Target Details

Target:	CD81
Alternative Name:	CD81 (CD81 Products)
Background:	Synonyms: CD81 antigen, 26 kDa cell surface protein TAPA-1, Target of the antiproliferative antibody 1, Tetraspanin-28, Tspan-28, CD81, CD81, TAPA1, TSPAN28 Tissue Specificity: Hematolymphoid, neuroectodermal and mesenchymal tumor cell lines.

Target Details

Background: CD81 Molecule, also known as CD81 (Cluster of Differentiation 81), is a protein which in humans is encoded by the CD81 gene. The protein encoded by this gene is a member of the transmembrane 4 superfamily, also known as the tetraspanin family. Most of these members are cell-surface proteins that are characterized by the presence of four hydrophobic domains. The proteins mediate signal transduction events that play a role in the regulation of cell development, activation, growth and motility. This encoded protein is a cell surface glycoprotein that is known to complex with integrins. This protein appears to promote muscle cell fusion and support myotube maintenance. Also it may be involved in signal transduction. This gene is localized in the tumor-suppressor gene region and thus it is a candidate gene for malignancies. Two transcript variants encoding different isoforms have been found for this gene.

UniProt: [P60033](#)

Pathways: [Inositol Metabolic Process](#), [Hepatitis C](#)

Application Details

Application Notes: Recommended Detection Systems: HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (SV0002-1) for IHC(P), IHC(F) and ICC.
Application Details: Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/mL
Immunohistochemistry(Frozen Section), 0.5-1 µg/mL
Immunocytochemistry, 0.5-1 µg/mL
Flow Cytometry, 1-3 µg/1x10⁶ cells
Direct ELISA, 0.1-0.5 µg/mL

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.

Buffer: Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na₂HPO₄, 0.05 mg NaN₃.

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: 4 °C, -20 °C

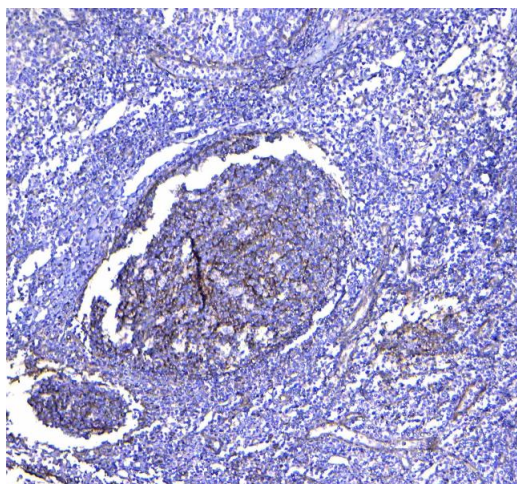
Handling

Storage Comment:

At -20°C for one year. After reconstitution, at 4°C for one month.

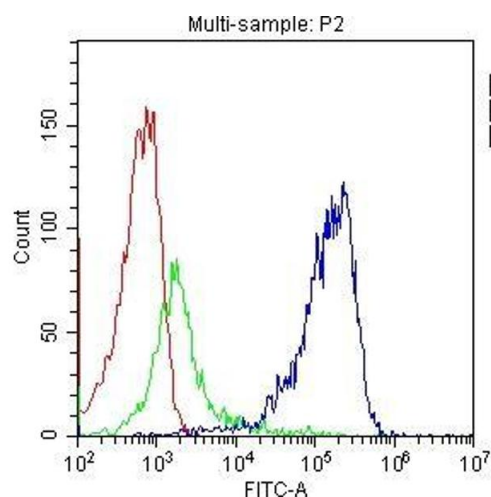
It can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.

Images



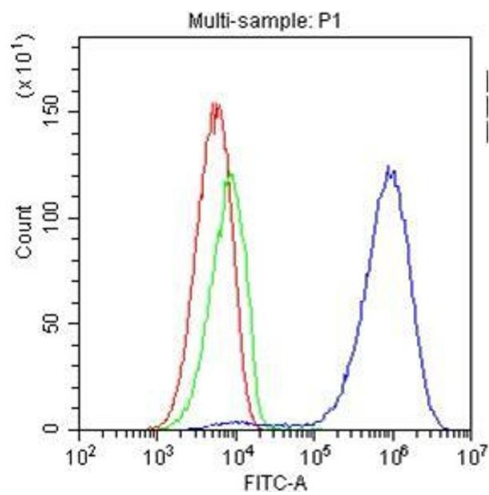
Immunohistochemistry

Image 1. IHC analysis of TAPA1 using anti-TAPA1 antibody . TAPA1 was detected in paraffin-embedded section of human tonsil tissue . Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1µg/ml rabbit anti-TAPA1 Antibody overnight at 4°C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC)(Catalog # SA1022) with DAB as the chromogen.



Flow Cytometry

Image 2. Flow Cytometry analysis of PBMC cells using anti-TAPA1 antibody . Overlay histogram showing PBMC cells stained with (Blue line).The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-TAPA1 Antibody (1µg/1x10⁶ cells) for 30 min at 20°C. DyLight[®]488 conjugated goat anti-rabbit IgG (BA1127, 5-10µg/1x10⁶ cells) was used as secondary antibody for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG (1µg/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



Flow Cytometry

Image 3. Flow Cytometry analysis of Jurkat cells using anti-TAPA1 antibody . Overlay histogram showing Jurkat cells stained with (Blue line).The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-TAPA1 Antibody ($1\mu\text{g}/1 \times 10^6$ cells) for 30 min at 20°C . DyLight[®]488 conjugated goat anti-rabbit IgG (BA1127, $5-10\mu\text{g}/1 \times 10^6$ cells) was used as secondary antibody for 30 minutes at 20°C . Isotype control antibody (Green line) was rabbit IgG ($1\mu\text{g}/1 \times 10^6$) used under the same conditions. Unlabelled sample (Red line) was also used as a control.

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN5693257.