

GMP FITC anti-human CD81 (TAPA-1) Antibody

Catalog# / Size	260374 / 100 tests
Clone	5A6
Other Names	S5.7, CVID6, TSPAN28
Isotype	Mouse IgG1, κ
Description	CD81 is a 26 kD non-glycosylated member of the tetraspanin superfamily (TM4SF), also known as TAPA-1 (target of an antiproliferative antibody). CD81 is expressed on T and B cells, NK cells, monocytes, dendritic cells, thymocytes, endothelial cells, and fibroblasts. It also has low levels of expression on granulocytes. CD81 induces B cell adhesion via VLA-4 integrin and has been shown to play a role in early T cell development. CD81 associates with several other cell-surface proteins in a multimolecular complex, including CD19, CD21, CD20, CD37, CD53, and CD82 in B cells, and CD4, CD8, and CD82 in T cells.

Product Details

Reactivity	Human
Reported Reactivity	African Green, Baboon, Cynomolgus, Rhesus
Antibody Type	Monoclonal
Host Species	Mouse
Immunogen	Human OCI-LY8 cell line
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA) and a stabilizer.
Preparation	The antibody was purified by affinity chromatography and conjugated with FITC under optimal conditions.
Concentration	200 $\mu\text{g}/\text{mL}$
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. Do not freeze.
Application	FC - Quality tested
Recommended Usage	Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis . For flow cytometric staining, the suggested use of this reagent is 5 μL per million cells in 100 μL staining volume or 5 μL per 100 μL of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.
Excitation Laser	Blue Laser (488 nm)
Application Notes	Additional reported applications (for the relevant formats) include: Western Blotting ³ and immunoprecipitation ^{2,3} .
Application References	<ol style="list-style-type: none">1. Van Zelm MC, <i>et al.</i> 2010. <i>J. Clin. Invest.</i> 120:1265.2. Oren R, <i>et al.</i> 1990. <i>Mol. Cell. Biol.</i> 8:4007. (IP)3. Clark K, <i>et al.</i> 2004. <i>J. Biol. Chem.</i> 279(19):19401. (IP, WB)4. Mochida K, <i>et al.</i> 2008. <i>J. Virol.</i> 13:6711.5. Rappa G, <i>et al.</i> 2014. <i>Mol Cancer Res.</i> 12:1840. PubMed
(PubMed link indicates BioLegend citation)	

Disclaimer

GMP RUO Flow Cytometry Antibodies. BioLegend GMP RUO fluorophore conjugated antibodies are manufactured in a dedicated GMP facility and compliant with ISO 13485:2016. For research use only. Not for use in diagnostic or therapeutic procedures. Our processes include:

- Batch-to-batch consistency
- Material traceability
- Documented procedures
- Documented employee training
- Equipment maintenance and monitoring records
- Lot-specific certificates of analysis
- Quality audits per ISO 13485:2016
- QA review of released products

Antigen Details

Structure	26 kD, type III transmembrane protein, member of the TM4SF tetraspanin family. Complexed with CD82, CD19, CD21, or CD4, CD8.
Distribution	T cells, NK, monocytes, B cells, endothelial and epithelial cells, low on granulocytes.
Function	Regulates cell activation and growth and cell aggregation.
Cell Type	B cells, Endothelial cells, Epithelial cells, Monocytes, Neural Stem Cells, NK cells, T cells
Biology Area	Cell Biology, Immunology, Neuroscience, Neuroscience Cell Markers, Signal Transduction, Stem Cells, Transcription Factors
Molecular Family	Adhesion Molecules, CD Molecules
Antigen References	<ol style="list-style-type: none">1. Van Zelm MC, <i>et al.</i> 2010. <i>J. Clin. Invest.</i> 120:12652. Fearon D, <i>et al.</i> 1995. <i>Annu. Rev. Immunol.</i> 13:127.3. Wright M, <i>et al.</i> 1994. <i>Immunol. Today</i> 15:588.
Gene ID	975

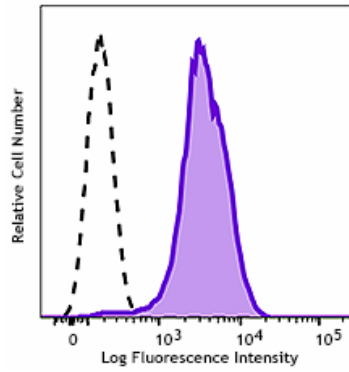
Related Protocols

- [Cell Surface Flow Cytometry Staining Protocol](#)

Other Formats

Purified anti-human CD81 (TAPA-1), FITC anti-human CD81 (TAPA-1), PE anti-human CD81 (TAPA-1), PerCP/Cyanine5.5 anti-human CD81 (TAPA-1), APC anti-human CD81 (TAPA-1), PE/Cyanine7 anti-human CD81 (TAPA-1), Biotin anti-human CD81 (TAPA-1), Pacific Blue™ anti-human CD81 (TAPA-1), Alexa Fluor® 700 anti-human CD81 (TAPA-1), PE/Dazzle™ 594 anti-human CD81 (TAPA-1), TotalSeq™-A0373 anti-human CD81 (TAPA-1), TotalSeq™-C0373 anti-human CD81 (TAPA-1), TotalSeq™-B0373 anti-human CD81 (TAPA-1), TotalSeq™-D0373 anti-human CD81 (TAPA-1), FITC anti-human CD81, PE/Fire™ 640 anti-human CD81 (TAPA-1), Spark YG™ 581 anti-human CD81 (TAPA-1), Spark Blue™ 574 anti-human CD81 (TAPA-1), Brilliant Violet 785™ anti-human CD81 (TAPA-1), Spark Red™ 718 anti-human CD81 (TAPA-1)

Product Data



Typical results from human peripheral blood lymphocytes stained either with 5A6 FITC used at 5 μ L/test (filled histogram) or with an isotype control (open histogram).

For Research Use Only. Suitable for *ex vivo* cell processing. Not for injection or diagnostic or therapeutic use.

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