SONY

Product Data Sheet

Alexa Fluor® 700 anti-human CD81 (TAPA-1)

Catalog # / Size: 2347590 / 100 tests
2347585 / 25 tests

Clone: 5A6

Isotype: Mouse IgG1, κ

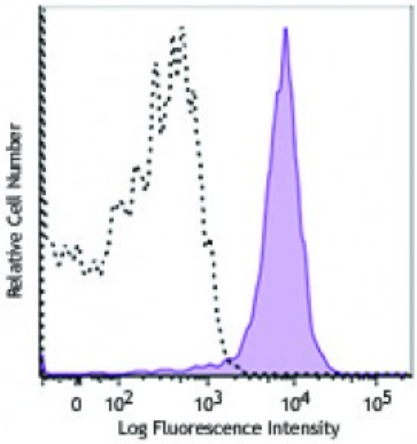
Immunogen: Human OCI-LY8 cell line

Reactivity: Human

Preparation: The antibody was purified by affinity chromatography and conjugated with Alexa Fluor® 700 under optimal conditions.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA).

Concentration: Lot-specific



Human peripheral blood lymphocytes were stained with CD81 (clone 5A6) Alexa Fluor® 700 (filled histogram) or mouse IgG1, κ isotype control Alexa Fluor® 700 (open histogram).

Applications:

Applications: Flow Cytometry

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 1 microL per million cells or 1 microL per 100 microL of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.

* Alexa Fluor® 700 has a maximum emission of 719 nm when it is excited at 633 nm / 635 nm. Prior to using Alexa Fluor® 700 conjugate for flow cytometric analysis, please verify your flow cytometer's capability of exciting and detecting the fluorochrome.

Application Notes: Additional reported applications (for the relevant formats) include: Western Blotting3 and immunoprecipitation[2,3].

Application References:

1. Menno C, *et al.* 2010. *J. Clin. Invest.* 4:1265.
2. Oren R, *et al.* 1990. *Mol. Cell. Biol.* 8:4007. (IP)
3. Clark K, *et al.* 2004. *J. Biol. Chem.* 279(19):19401. (IP, WB)
4. Mochida K, *et al.* 2008. *J. Virol.* 13:6711.
5. Rappa G, *et al.* 2014. *Mol Cancer Res.* 12:1840. PubMed

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.

Antigen

1. Menno C, *et al.* 2010. *J. Clin. Invest.* 4:1265.

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References: 2. Fearon D, *et al.* 1995. *Annu. Rev. Immunol.* 13:127.
3. Wright M, *et al.* 1994. *Immunol. Today* 15:588.