

**PE/Dazzle™ 594 anti-human CD81 (TAPA-1)**

**Catalog # / Size:** 2347595 / 25 tests  
2347600 / 100 tests

**Clone:** 5A6

**Isotype:** Mouse IgG1, κ

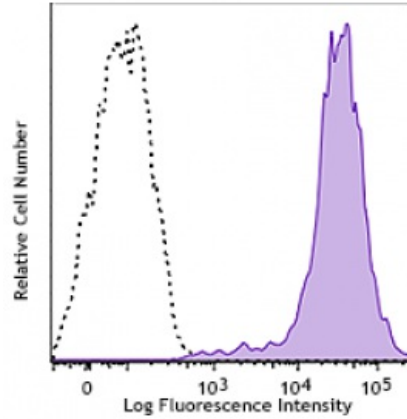
**Immunogen:** Human OCI-LY8 cell line

**Reactivity:** Human, Non-human primate

**Preparation:** The antibody was purified by affinity chromatography and conjugated with PE/Dazzle™ 594 under optimal conditions. The solution is free of unconjugated PE/Dazzle™ 594 and unconjugated antibody.

**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 anti-human CD81 (clone 5A6) PE/Dazzle™ 594 (filled histogram) or mouse IgG1, κ PE/Dazzle™ 594 isotype control (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 5 µl per million cells or 5 µl per 100 µl of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.

\* PE/Dazzle™ 594 has a maximum excitation of 566 nm and a maximum emission of 610 nm.

**Application Notes:** Additional reported applications (for the relevant formats) include: Western Blotting<sup>3</sup> and immunoprecipitation<sup>2,3</sup>.

**Application References:**

1. Menno C, *et al.* 2010. *J. Clin. Invest.* 4:1265.
2. Fearon D, *et al.* 1995. *Annu. Rev. Immunol.* 13:127.
3. Wright M, *et al.* 1994. *Immunol. Today* 15:588.

**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 References:**

1. Menno C, *et al.* 2010. *J. Clin. Invest.* 4:1265.
2. Fearon D, *et al.* 1995. *Annu. Rev. Immunol.* 13:127.
3. Wright M, *et al.* 1994. *Immunol. Today* 15:588.