

**PerCP/Cy5.5 anti-mouse/rat CD81**

**Catalog # / Size:** 1124560 / 100 µg  
1124555 / 25 µg

**Clone:** Eat-2

**Isotype:** Hamster IgG

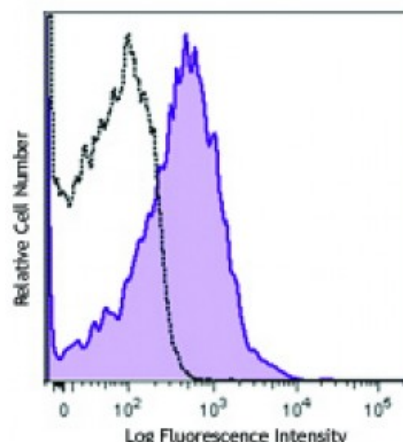
**Immunogen:** CD81+ mouse B lymphoma 38C13

**Reactivity:** Mouse,Rat

**Preparation:** The antibody was purified by affinity chromatography and conjugated with PerCP/Cy5.5 under optimal conditions. The solution is free of unconjugated PerCP/Cy5.5 and unconjugated antibody.

**Formulation:** Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.

**Concentration:** 0.2



C57BL/6 mouse splenocytes were stained with mouse/rat CD81 (clone Eat-2) PerCP/Cy5.5 (filled histogram) or Armenian hamster IgG PerCP/Cy5.5 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 ≤0.25 microg per million cells in 100 microL volume. It is recommended that the reagent be titrated for optimal performance for each application.

\* PerCP/Cy5.5 has a maximum absorption of 482 nm and a maximum emission of 690 nm.

**Application Notes:** The Eat-2 antibody reacts with mouse and rat CD81. Additional reported applications (for the relevant formats) include: immunoprecipitation<sup>1,2</sup>, Western blotting<sup>1,2</sup>, induction of homotypic adhesion of B lymphocytes<sup>1</sup>, stimulation of B cells undergo early apoptotic events<sup>1</sup>, and promotion of T cell motility<sup>2</sup>. The LEAF™ purified antibody (Endotoxin <0.1 EU/µg, Azide-Free, 0.2 µm filtered) is recommended for functional assays (Cat. No. 104908).

**Application References:** 1. Maecker HT, *et al.* 2000. *Hybridoma* 19:15. (IP, WB, Stim)  
2. Clark KL, *et al.* 2001. *J. Immunol.* 167:5115. (IP, WB, Activ)  
3. Bhatnagar S and Schorey JS. 2007. *J. Biol. Chem.* doi:10.1074/jbc.M702277200. [PubMed](http://pubmed.ncbi.nlm.nih.gov/17511111/)

**Description:** CD81 is a 26 kD non-glycosylated member of the tetraspanin superfamily (TM4SF), also known as TAPA-1. CD81 is expressed on T and B cells, NK cells, dendritic cells, thymocytes, endothelial cells, and fibroblasts. CD81 induces B cell adhesion via the 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. Barclay AN, *et al.* 1997. The Leukocyte Antigen FactsBook Academic Press.

- References:**
2. Levy S, *et al.* 1998. *Annu. Rev. Immunol.* 16:89.
  3. Maeker HT, *et al.* 1997. *FASEB J.* 11:428.
  4. Boismenu R,