

PE/Cyanine7 anti-mouse/rat CD81

Catalog # / 1124570 / 100 µg
Size: 1124565 / 25 µg

Clone: Eat-2

Isotype: Hamster IgG

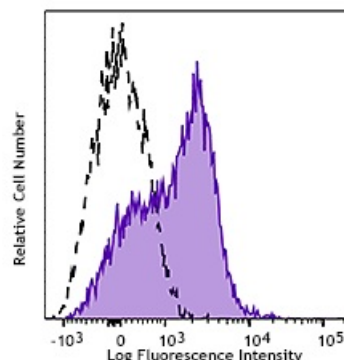
Immunogen: CD81 + mouse B lymphoma 38C13

Reactivity: Mouse, Rat

Preparation: The antibody was purified by affinity chromatography and conjugated with PE/Cyanine7 under optimal conditions. The solution is free of unconjugated PE/Cyanine7 and unconjugated antibody.

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

Concentration: 0.2 mg/ml



C57BL/6 mouse splenocytes were stained with mouse/rat CD81 (clone Eat-2) PE/Cyanine7 (filled histogram) or Armenian hamster IgG PE/Cyanine7 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 ≤ 0.5 µg per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.

Application Notes: The Eat-2 antibody reacts with mouse and rat CD81. Additional reported applications (for the relevant formats) include: immunoprecipitation^{1,2}, Western blotting^{1,2}, induction of homotypic adhesion of B lymphocytes¹, stimulation of B cells undergo early apoptotic events¹, and promotion of T cell motility².

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](#)
4. Castro-Seoane R, et al. 2012. *PLoS Pathog.* 8:1002538. [PubMed](#)

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, *et al.* 1996. *Science* 271:198.