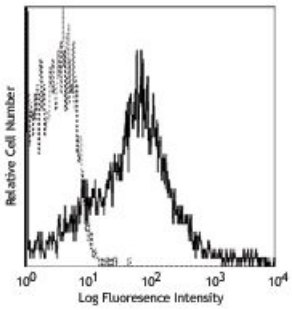
SONY

Product Data Sheet

PE anti-mouse/rat CD81

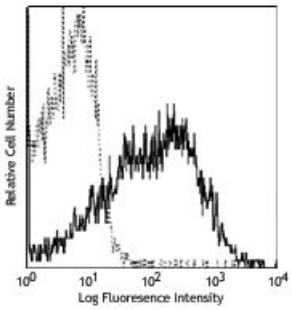
Catalog # / Size:	1124525 / 50 µg 1124530 / 200 µg
Clone:	Eat-2
Isotype:	Armenian Hamster IgG, ?x
Immunogen:	CD81+ mouse B lymphoma 38C13
Reactivity:	Mouse, Rat
Preparation:	The antibody was purified by affinity chromatography, and conjugated with PE under optimal conditions. The solution is free of unconjugated PE and unconjugated antibody.
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
Concentration:	0.2



C57BL/6 mouse splenocytes stained with Eat-2 PE

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 10^6 cells in 100 microL 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. The LEAF™ purified antibody (Endotoxin <0.1 EU/µg, Azide-Free, 0.2 µm filtered) is recommended for functional assays (Cat. No. 104908).



Lou rat splenocytes stained with Eat-2 PE

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. Rahman MJ, *et al.* 2014. *Diabetes.* 63:1008. 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 References:

1. Barclay AN, *et al.* 1997. The Leukocyte Antigen FactsBook Academic Press.
2. Levy S, *et al.* 1998. *Annu. Rev. Immunol.* 16:89.
3. Maeker HT, *et al.* 1997. *FASEB J.* 11:428.
4. Boismenu R,