



Anti-CD81 monoclonal antibody, clone Eat2 [R-PE] (CABT-48271HM)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview

Hamster anti Mouse CD81 antibody, clone Eat2 recognizes mouse and rat CD81, also known as TAPA-1 or Target of the antiproliferative antibody 1. CD81 is a 236 amino acid ~26 kDa multipass transmembrane protein belonging to the TM4SF family (UniProt: P35762). In rodents CD81 is expressed at much higher levels on resting B cells than on T cells, although increased expression on T cells is found following activation. Hamster anti Mouse CD81 antibody, clone Eat2 induces homotypic aggregation of B cells and inhibits anti Ig and IL-4 induced proliferation. Eat 2 requires the presence of both extracellular loops of TAPA-1 for binding. Mice lacking CD81 demonstrate reduced fertility through impaired oocyte-sperm fusion, double knockout CD81^{-/-} CD9^{-/-} mice are completely infertile suggesting complimentary roles in oocyte-sperm fusion. Flow Cytometry Use 10ul of the suggested working dilution to label 106 cells in 100ul. The Fc region of monoclonal antibodies may bind non-specifically to cells expressing low affinity Fc receptors.

Specificity	CD81
Immunogen	38C13, murine B cell line.
Isotype	IgG1
Source/Host	Hamster
Species Reactivity	Mouse, Rat
Clone	Eat2
Conjugate	PE
Applications	FC
Format	Purified IgG conjugated to R. Phycoerythrin (RPE) - lyophilised

Size	100 tests
Preservative	0.09% Sodium Azide
Storage	Store at +4°C. DO NOT FREEZE. This product should be stored undiluted. This product is photosensitive and should be protected from light. Should this product contain a precipitate we recommend microcentrifugation before use.

GENE INFORMATION

Gene Name	Cd81 CD81 antigen [Mus musculus (house mouse)]
Official Symbol	CD81
Synonyms	CD81; CD81 antigen; Tapa1; Tapa-1; Tspan28; 26 kDa cell surface protein TAPA-1; target of the antiproliferative antibody 1;
Entrez Gene ID	12520
Protein Refseq	NP_598416
UniProt ID	P35762
Chromosome Location	7 F5; 7 88.1 cM
Pathway	Adaptive Immune System; B Cell Receptor Signaling Pathway; B cell receptor signaling pathway; Hepatitis C; Immune System; Immunoregulatory interactions between a Lymphoid and a non-Lymphoid cell; Malaria;
Function	MHC class II protein complex binding; protein binding;