## Datasheet: MCA1846T BATCH NUMBER 1709

Description:	HAMSTER ANTI MOUSE CD81			
Specificity:	CD81			
Other names:	TAPA-1			
Format:	Purified			
Product Type:	Monoclonal Antibody			
Clone:	Eat2			
Isotype:	lgG1			
Quantity:	25 µg			

## **Product Details**

#### Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit <u>www.bio-rad-antibodies.com/protocols</u>.

		Yes	No	Not Determined	Suggested Dilution
	Flow Cytometry				1/50 - 1/100
	Immunohistology - Frozen (1)	-			
	Immunohistology - Paraffin				
	ELISA				
	Immunoprecipitation				
	Western Blotting (2)				
	necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the antibody for use in their own system using appropriate negative/positive controls. (1)The epitope recognised by this antibody is reported to be sensitive to formaldehyde fixation and tissue processing. Bio-Rad recommends the use of acetone fixation for frozen sections. (2)Clone Eat2 recognizes mouse CD81 under non-reducing conditions.				
Target Species	Mouse				
Species Cross	Reacts with: Rat				

	further information.				
Product Form	Purified IgG - liquid				
Preparation	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant				
Buffer Solution	Phosphate buffered saline				
Preservative Stabilisers	0.09% Sodium Azide				
Carrier Free	Yes				
Approx. Protein Concentrations	IgG concentration 1.0 mg/ml				
Immunogen	38C13, murine B cell line.				
External Database Links	UniProt: <u>P35762</u> <u>Related reagents</u> Entrez Gene: <u>12520</u> Cd81 <u>Related reagents</u>				
Synonyms	Tapa1				
Synonyms RRID	Tapa1 AB_1102388				
		vith cells of the mouse			
RRID	AB_1102388 Spleen cells from immunised Armenian hamsters were fused w PX3-Ag.8.653 myeloma cell line. <b>Hamster anti Mouse CD81 antibody, clone Eat2</b> recognizes known as TAPA-1 or Target of the antiproliferative antibody 1. ( ~26 kDa multipass transmembrane protein belonging to the TM P35762). In rodents CD81 is expressed at much higher levels cells, although increased expression on T cells is found followin Mouse CD81 antibody, clone Eat2 induces homotypic aggrega anti Ig and IL-4 induced proliferation (Maecker <i>et al.</i> 2000). Eat both extracellular loops of TAPA-1 for binding.	mouse and rat CD81, also CD81 is a 236 amino acid MASF family ( <u>UniProt:</u> on resting B cells than on T ng activation. Hamster anti tion of B cells and inhibits t 2 requires the presence of red oocyte-sperm fusion,			
RRID Fusion Partners	AB_1102388 Spleen cells from immunised Armenian hamsters were fused w PX3-Ag.8.653 myeloma cell line. <b>Hamster anti Mouse CD81 antibody, clone Eat2</b> recognizes known as TAPA-1 or Target of the antiproliferative antibody 1. ( ~26 kDa multipass transmembrane protein belonging to the TM P35762). In rodents CD81 is expressed at much higher levels cells, although increased expression on T cells is found followin Mouse CD81 antibody, clone Eat2 induces homotypic aggrega anti Ig and IL-4 induced proliferation (Maecker <i>et al.</i> 2000). Eat both extracellular loops of TAPA-1 for binding.	mouse and rat CD81, also CD81 is a 236 amino acid MASF family ( <u>UniProt:</u> on resting B cells than on T ng activation. Hamster anti tion of B cells and inhibits t 2 requires the presence of red oocyte-sperm fusion,			
RRID Fusion Partners	<ul> <li>AB_1102388</li> <li>Spleen cells from immunised Armenian hamsters were fused w PX3-Ag.8.653 myeloma cell line.</li> <li>Hamster anti Mouse CD81 antibody, clone Eat2 recognizes known as TAPA-1 or Target of the antiproliferative antibody 1. 0 ~26 kDa multipass transmembrane protein belonging to the TM P35762). In rodents CD81 is expressed at much higher levels cells, although increased expression on T cells is found followin Mouse CD81 antibody, clone Eat2 induces homotypic aggrega anti Ig and IL-4 induced proliferation (Maecker <i>et al.</i> 2000). Eat both extracellular loops of TAPA-1 for binding.</li> <li>Mice lacking CD81 demonstrate reduced fertility through impain double knockout CD81-/- CD9-/- mice are completely infertile s</li> </ul>	mouse and rat CD81, also CD81 is a 236 amino acid M4SF family ( <u>UniProt:</u> on resting B cells than on T ng activation. Hamster anti tion of B cells and inhibits t 2 requires the presence of red oocyte-sperm fusion, uggesting complimentary			

	<ul> <li>distinguishes a new family of cell surface proteins. J Immunol. 167 (9): 5115-21.</li> <li>2. Maecker, H.T. <i>et al.</i> (2000) Differential expression of murine CD81 highlighted by new anti-mouse CD81 monoclonal antibodies. Hybridoma 19: 15-22.</li> <li>3. Conde-Vancells, J. <i>et al.</i> (2010) Candidate biomarkers in exosome-like vesicles purified from rat and mouse urine samples. Proteomics Clin Appl. 4 (4): 416-25.</li> <li>4. Conde-Vancells, J. <i>et al.</i> (2008) Characterization and comprehensive proteome profiling of exosomes secreted by hepatocytes. J Proteome Res. 7: 5157-66.</li> <li>5. Takeda, Y. <i>et al.</i> (2008) Double deficiency of tetraspanins CD9 and CD81 alters cell motility and protease production of macrophages and causes chronic obstructive pulmonary disease-like phenotype in mice. J Biol Chem. 283: 26089-97.</li> <li>6. Suzuki, M. <i>et al.</i> (2009) Tetraspanin CD9 negatively regulates lipopolysaccharide-induced macrophage activation and lung inflammation. J Immunol. 182: 6485-93.</li> <li>7. Ha, C.T. <i>et al.</i> (2005) Binding of pregnancy-specific glycoprotein 17 to CD9 on macrophages induces secretion of IL-10, IL-6, PGE2, and TGF-beta1. J Leukoc Biol. 77: 948-57.</li> <li>8. Pan, Q. <i>et al.</i> (2011) Hepatic cell-to-cell transmission of small silencing RNA can extend the therapeutic reach of RNA interference (RNAi). Gut. 61: 1330-9.</li> <li>9. Jin, Y. <i>et al.</i> (2013) Statins decrease lung inflammation in mice by upregulating tetraspanin CD9 in macrophages. PLoS One. 8: e73706.</li> <li>10. Royo, F. <i>et al.</i> (2013) Transcriptome of extracellular vesicles released by hepatocytes. PLoS One. 8: e68693.</li> <li>11. Owens, D.M. and Watt, F.M. (2001) Influence of beta1 integrins on epidermal squamous cell carcinoma formation in a transgenic mouse model: alpha3beta1, but not alpha2beta1, suppresses malignant conversion. Cancer Res. 61: 5248-54.</li> <li>12. Jin, Y. <i>et al.</i> (2013) Amyloid precursor protein is an autonomous growth cone adhesion molecule engaged in contact guidance. PLoS One. 8 (5): e64521</li></ul>
Storage	Store at +4°C or at -20°C if preferred. This product should be stored undiluted.
	Storage in frost-free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.
Guarantee	12 months from date of despatch
Health And Safety Information	Material Safety Datasheet documentation #10040 available at: https://www.bio-rad-antibodies.com/SDS/MCA1846T 10040
Regulatory	For research purposes only

# **Related Products**

## **Recommended Secondary Antibodies**

Goat Anti Hamster IgG (STAR104) <u>DyLight®550,</u> <u>DyLight®650,</u> <u>DyLight®800,</u> <u>FITC</u>						
Goat Anti Hamster IgG (STAR79) Biotin, FITC, HRP						
North & South America To find a b	Fax: +1 919 878 3751 Email: antibody_sales_us@bio		Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: antibody_sales_uk@bic		Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: antibody_sales_de@bio-rad.com : bio-rad-antibodies.com/datasheets	
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