

## Monoclonal Antibody to CD81 / TAPA1 - PE

<b>Alternate names:</b>	26 kDa cell surface protein TAPA-1, Target of the antiproliferative antibody 1
<b>Catalog No.:</b>	SM1526R
<b>Quantity:</b>	100 Tests
<b>Background:</b>	CD81 is a 26kD cell surface glycoprotein that is also known as TAPA-1. 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.
<b>Uniprot ID:</b>	<a href="#">P35762</a>
<b>NCBI:</b>	<a href="#">10090</a>
<b>Host / Isotype:</b>	Hamster / IgG
<b>Clone:</b>	Eat2
<b>Immunogen:</b>	38C13, murine B cell line. Spleen cells from immunised Armenian hamsters were fused with cells of the mouse PX3-Ag.8.653 myeloma cell line.
<b>Format:</b>	<b>State:</b> Lyophilized purified IgG fraction. <b>Purification:</b> Affinity Chromatography on Protein G. <b>Buffer System:</b> PBS, pH7.4 containing 0.09% Sodium Azide as preservative and 1% BSA as stabilizer. <b>Label:</b> PE – R. Phycoerythrin (RPE) <b>Reconstitution:</b> Restore with 1.0 ml distilled water.
<b>Applications:</b>	Flow Cytometry: Use 10 µl of neat antibody to label 10e6 cells in 100 µl. The Fc region of monoclonal antibodies may bind non-specifically to cells expressing low affinity Fc receptors. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
<b>Specificity:</b>	This antibody recognises and CD81. Eat 2 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. <b>Species:</b> Mouse and Rat. Other species not tested.
<b>Storage:</b>	Store the antibody undiluted at 2-8°C. <b>DO NOT FREEZE!</b> This product is photosensitive and should be protected from light. Shelf life: one year from despatch.
<b>Product Citation:</b>	1. Antje Blumenthal, Jürgen Giebel, Ramesh Ummanni, Rabea Schlüter, Karlhans Endlich, and Nicole Endlich: Morphology and migration of podocytes are affected by CD151 levels; Am J Physiol Renal Physiol, May 2012; 302: F1265 - F1277.

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Antibody Hotline - Technical Questions - Antibody Location Service  
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- General References:**
1. Clark, K. et al. (2001) PGRL is a major CD81 - associated protein on lymphocytes and distinguishes a new family of cell surface proteins. *J. Immunol.* 167: 5115 - 5121.
  2. Maecker, H.T. et al. (2000) Differential expression of murine CD81 highlighted by new anti-mouse CD81 monoclonal antibodies. *Hybridoma* 19: 15-22.

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