Datasheet: MCA1846GA

**Description:** HAMSTER ANTI MOUSE CD81

**Specificity:** CD81

**Other names:** TAPA-1

**Format:** Purified

**Product Type:** Monoclonal Antibody

**Clone:** Eat2

**Isotype:** IgG1

**Quantity:** 0.1 mg

**Applications**

<table>
<thead>
<tr>
<th>Application</th>
<th>Yes</th>
<th>No</th>
<th>Not Determined</th>
<th>Suggested Dilution</th>
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</thead>
<tbody>
<tr>
<td>Flow Cytometry</td>
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<td>1/10 - 1/50</td>
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<tr>
<td>Immunohistology - Frozen (1)</td>
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<td>Immunohistology - Paraffin</td>
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<td>Immunoprecipitation</td>
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<td>Western Blotting (2)</td>
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Where this antibody has not been tested for use in a particular technique this does not 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 Reactivity**

React with: Rat

N.B. Antibody reactivity and working conditions may vary between species.

**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**

0.09% Sodium Azide
Stabilisers

Carrier Free | Yes
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Approx. Protein Concentrations | IgG concentration 1 mg/ml

Immunogen | 38C13, murine B cell line.

External Database Links

UniProt: P35762 Related reagents

Entrez Gene: 12520 Cd81 Related reagents

Synonyms | Tapa1

Fusion Partners | Spleen cells from immunised Armenian hamsters were fused with cells of the mouse PX3-Ag.8.653 myeloma cell line.

Specificity | 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 (Maecker et al., 2000). 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 (Rubenstein et al., 2006).

Flow Cytometry | Use 10ul of the suggested working dilution to label 10^6 cells in 100ul.

References


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
18 months from date of despatch.

Health And Safety Information

Regulatory
For research purposes only

Recommended Products

Recommended Secondary Antibodies
Goat Anti Hamster IgG (STAR79...) Biotin, FITC, HRP
Goat Anti Hamster IgG (STAR104...) DyLight®800, FITC

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