Datasheet: MCA1846PE

**Description:**
HAMSTER ANTI MOUSE CD81:RPE

**Specificity:**
CD81

**Other names:**
TAPA-1

**Format:**
RPE

**Product Type:**
Monoclonal Antibody

**Clone:**
Eat2

**Isotype:**
IgG1

**Quantity:**
100 TESTS

### 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 www.bio-rad-antibodies.com/protocols.

<table>
<thead>
<tr>
<th>Application</th>
<th>Yes</th>
<th>No</th>
<th>Not Determined</th>
<th>Suggested Dilution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flow Cytometry</td>
<td></td>
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<td>Neat</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.

### Target Species
Mouse

### Species Cross Reactivity
Reacts with: Rat

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

### Product Form
Purified IgG conjugated to R. Phycoerythrin (RPE) - lyophilized

### Reconstitution
Reconstitute with 1.0 ml distilled water

### Max Ex/Em

<table>
<thead>
<tr>
<th>Fluorophore</th>
<th>Excitation Max (nm)</th>
<th>Emission Max (nm)</th>
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<tr>
<td>RPE 488nm laser</td>
<td>496</td>
<td>578</td>
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### 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
1% Bovine Serum Albumin
5% Sucrose
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.

The Fc region of monoclonal antibodies may bind non-specifically to cells expressing low affinity Fc receptors. This may be reduced by using SeroBlock FcR (BUF041A/B).

References

carcinoma formation in a transgenic mouse model: alpha3beta1, but not alpha2beta1, suppresses malignant conversion. Cancer Res. 61: 5248-54.


**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.

**Guarantee**

12 months from date of reconstitution.

**Health And Safety Information**


**Regulatory**

For research purposes only

**Related Products**

**Recommended Useful Reagents**

MOUSE SEROBLOCK FcR (BUF041A)
MOUSE SEROBLOCK FcR (BUF041B)