Datasheet: MCA1268F

Description: MOUSE ANTI HUMAN CD39:FITC
Specificity: CD39
Format: FITC
Product Type: Monoclonal Antibody
Clone: A1
Isotype: IgG1
Quantity: 0.1 mg

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 [www.bio-rad-antibodies.com/protocols](http://www.bio-rad-antibodies.com/protocols).

<table>
<thead>
<tr>
<th>Applications</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>
<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

Human

Product Form

Purified IgG conjugated to Fluorescein Isothiocyanate Isomer 1 (FITC) - liquid

Max Ex/Em

<table>
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<tr>
<th>Fluorophore</th>
<th>Excitation Max (nm)</th>
<th>Emission Max (nm)</th>
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<tr>
<td>FITC</td>
<td>490</td>
<td>525</td>
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Buffer Solution

Phosphate buffered saline

Preservative Stabilisers

0.09% Sodium Azide
1% Bovine Serum Albumin

Approx. Protein Concentrations

IgG concentration 0.1 mg/ml

Immunogen

PHA activated human lymphocytes

External Database Links

UniProt:
- [P49961](https://www.uniprot.org/uniprot/P49961) Related reagents

Entrez Gene:
- [953](https://www.ncbi.nlm.nih.gov/gene/953) ENTPD1 Related reagents
Synonyms: CD39

Fusion Partners: Spleen cells from immunised BALB/c mice were fused with cells of the mouse NS1 myeloma cell line.

Specificity: Mouse anti Human CD39, clone A1 recognizes the human CD39 cell surface antigen, a ~70-100 kDa molecule expressed on peripheral blood B cells, T cells and monocytes, and weakly expressed by granulocytes.

- CD39 has intrinsic ecto-ATPase activity (Wang et al. 1996), and expression can be induced on T cells and increased on B cells, as a late activation antigen (Maliszewski et al. 1994).
- Mouse anti Human CD39, clone A1 has been shown to block MHC independent target cell recognition by hapten-specific CTL (Stockl et al. 2001).

Flow Cytometry: Use 10ul of the suggested working dilution to label 10^6 cells or 100ul whole blood.

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. This product is photosensitive and should be protected from light.
Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

Shelf Life
18 months from date of despatch.

Health And Safety Information
Material Safety Datasheet documentation #10041 available at:

Regulatory
For research purposes only

Related Products
Recommended Negative Controls
MOUSE IgG1 NEGATIVE CONTROL:FITC (MCA928F)

Recommended Useful Reagents
HUMAN SEROBLOCK (BUF070A)
HUMAN SEROBLOCK (BUF070B)