## Product Details

### Description:
MOUSE ANTI HUMAN CD39: Low Endotoxin

### Specificity:
CD39

### Format:
Low Endotoxin

### Product Type:
Monoclonal Antibody

### Clone:
A1

### Isotype:
IgG1

### Quantity:
0.5 mg

### 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).

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<th>Application</th>
<th>Yes</th>
<th>No</th>
<th>Not Determined</th>
<th>Suggested Dilution</th>
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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 - liquid

### Preparation
Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant

### Buffer Solution
Phosphate buffered saline

### Preservative Stabilisers
None present

### Endotoxin Level
<0.01EU/ug

### Approx. Protein Concentrations
IgG concentration 1.0 mg/ml

### Immunogen
PHA activated human lymphocytes
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 (Scholzen et al. 2009).

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

References
13. Alam, M.S. et al. (2009) CD73 is expressed by human regulatory T helper cells and suppresses

**Storage**

Store at -20°C only.

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.

**Shelf Life**

18 months from date of despatch.

**Health And Safety Information**

Material Safety Datasheet documentation available at:

**Regulatory**

For research purposes only

**Recommended Products**

**Recommended Secondary Antibodies**

- Goat Anti Mouse IgG (STAR76...)
- Goat Anti Mouse IgG IgA IgM (STAR87...)
- Goat Anti Mouse IgG (H/L) (STAR117...)
- Rabbit Anti Mouse IgG (STAR9...)
- Goat Anti Mouse IgG (STAR77...)
- Rabbit Anti Mouse IgG (STAR12...)
- Goat Anti Mouse IgG (Fc) (STAR120...)
- Rabbit Anti Mouse IgG (STAR8...)
- Goat Anti Mouse IgG (STAR70...)
- Human Anti Mouse IgG1 (HCA036...)
- Rabbit Anti Mouse IgG (STAR13...)

RPE, RPE, RPE, RPE, FITC, FITC, FITC, FITC, HRP, HRP, HRP, HRP

**Recommended Negative Controls**

**MOUSE IgG1 NEGATIVE CONTROL:Low Endotoxin (MCA928EL)**