Datasheet: MCA1880F
BATCH NUMBER 164080

Product Details

Description: MOUSE ANTI HUMAN CD6:FITC
Specificity: CD6
Format: FITC
Product Type: Monoclonal Antibody
Clone: MEM-98
Isotype: IgG1
Quantity: 0.1 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.

<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>
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<td>Neat</td>
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Where this product 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 product 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>
<thead>
<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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Preparation

Purified IgG prepared by affinity chromatography on Protein A from ascites

Buffer Solution

Phosphate buffered saline

Preservative Stabilisers

0.09% sodium azide (NaN₃)
1% bovine serum albumin

Approx. Protein Concentrations

IgG concentration 0.1mg/ml

Immunogen

Purified CD6 antigen
**External Database Links**

- **UniProt:** P30203
- **Related reagents**

**Entrez Gene:**

- 923 CD6
- **Related reagents**

**RRID**

AB_322544

**Fusion Partners**

Spleen cells from immunized mice

**Specificity**

**Mouse anti Human CD6 antibody, clone MEM-98** recognizes human CD6, also known as T12 or TP120. CD6 is a ~100-130 kDa type 1 single pass trans-membrane protein member of the immunoglobulin superfamily. CD6 possesses 3 scavenger receptor cysteine rich (SRCR) domains in it’s extracellular sequence. The membrane proximal SRCR3 contains the epitope responsible for interaction with CD166, also known as Activated Leukocyte Cell Adhesion Molecule (ALCAM) or CD166.

Multiple gene transcripts have been detected encoding CD6 in man resulting in the production of a number of CD6 isoforms. Mouse anti human CD6, clone MEM-98 recognizes an external epitope located in the membrane-distal SRCR domain 1 and is expected to recognize all CD6 isoforms so far identified, **CD6A-E**.

CD6 has been implicated as a therapeutic target for a number of autoimmune conditions (Pinto et al. 2013) including Sjögren's syndrome (Ramos-Casais et al. 2001), rheumatoid arthritis (Rodriguez et al.) and psoriasis (Wilsmann-Theis et al. 2006).

**Flow Cytometry**

Use 10μl of the suggested working dilution to label 10^6 cells or 100μl whole blood

**References**


**Storage**

This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.
Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended. This product is photosensitive and should be protected from light.

**Guarantee**
12 months from date of despatch

**Health And Safety Information**
Material Safety Datasheet documentation #10041 available at: https://www.bio-rad-antibodies.com/SDS/MCA1880F

**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)

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets 'M415215:221215'

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