# Datasheet: MCA1880F

## 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](http://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>
<td></td>
<td></td>
<td>Neat</td>
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</tbody>
</table>

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

## Preparation

Purified IgG prepared by affinity chromatography on Protein G

## Buffer Solution

Phosphate buffered saline

## Preservative Stabilisers

- 0.09% Sodium Azide
- 1% Bovine Serum Albumin

## Approx. Protein Concentrations

IgG concentration 0.1mg/ml

## Immunogen

Purified CD6 antigen
**Specificity**

*Mouse anti Human CD6 antibody, clone MEM-98* recognizes human CD6, also known as T12 or TP12. 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 its 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-Casals et al. 2001)*, rheumatoid arthritis *(Rodriguez et al.)* and psoriasis *(Wilsmann-Theis et al. 2006)*.

**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.

**Guarantee**
12 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)

**Printed on 22 Mar 2021**