Datasheet: MCA874F

Description: 
MOUSE ANTI HUMAN MACROPHAGES:FITC

Specificity: 
MACROPHAGES/MONOCYTES

Format: 
FITC

Product Type: 
Monoclonal Antibody

Clone: 
MAC387

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.

<table>
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<tr>
<th>Yes</th>
<th>No</th>
<th>Not Determined</th>
<th>Suggested Dilution</th>
</tr>
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<td>Neat</td>
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Flow Cytometry (1)

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.

(1) Membrane permeabilisation is required for this application. Bio-Rad recommends the use of Leucoperm™ (Product Code BUF09) for this purpose.

Target Species

Human

Species Cross Reactivity
Reacts with: Horse, Pig, Dog, Rabbit, Baboon, Bovine, Guinea Pig, Rat, Cat, Cynomolgus monkey, Rhesus Monkey, Goat, Fallow deer, Pygmy hippopotamus, Mink, Marmoset

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

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 (nm)</th>
<th>Emission (nm)</th>
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<tr>
<td>FITC</td>
<td>490</td>
<td>520</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

Approx. Protein Concentrations
IgG concentration 0.1 mg/ml
Immunogen: Human monocytes.

External Database Links
- UniProt: P06702 Related reagents
- Entrez Gene: 6280 S100A9 Related reagents

Synonyms: CAGB, CFAG, MRP14

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

Specificity: Mouse anti Human macrophages, clone MAC387 recognizes the L1 or Calprotectin molecule, an intracytoplasmic antigen comprised of a 12 kDa alpha chain and a 14 kDa beta chain. Although originally described as binding to epitopes common to both the alpha and beta chains (Flavell et al. 1987) subsequent studies indicate that the antibody detects an epitope exclusively expressed on the beta chain (Goebeler et al. 1994) demonstrated by immunofluorescent and western blotting on both naturally expressing and transfected targets. In addition Mouse anti Human macrophages, clone MAC387 detects the beta chain in complex with the alpha.

The antigen recognized by Mouse anti Human macrophages, clone MAC387 is expressed by granulocytes, monocytes and by tissue macrophages. Variable results have been reported for staining brain macrophages and microglia. The epitope recognized appears to be well conserved and the antibody is routinely used for the detection of myeloid cells in a wide range of species.

Flow Cytometry: Use 10ul of the suggested working dilution to label 1x10^6 cells in 100ul.

References:
10. Vranckx, K. et al. (2012) Vaccination reduces macrophage infiltration in bronchus-associated...
lymphoid tissue in pigs infected with a highly virulent Mycoplasma hyopneumoniae strain. **BMC Vet Res.** 8: 24.


### Further Reading


### 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.

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<th>Shelf Life</th>
<th>18 months from date of despatch.</th>
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**Health And Safety Information**


**Regulatory**

For research purposes only

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**Recommended Products**

**Recommended Negative Controls**

MOUSE IgG1 NEGATIVE CONTROL-FITC (MCA928F)

**Recommended Useful Reagents**

HUMAN SEROBLOCK (BUF070A)

HUMAN SEROBLOCK (BUF070B)

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