

# Calprotectin (S100A9) Monoclonal Antibody (MAC387), FITC

Product Details	
Size	100 µg
Species Reactivity	Bovine, Dog, Deer, Horse, Cat, Guinea pig, Goat, Human, Non-human primate, Pig, Rabbit, Rat
Published Species	Dog, Pig, Rat, Bovine, Human, Mouse
Host/Isotype	Mouse / IgG1
Class	Monoclonal
Type	Antibody
Clone	MAC387
Conjugate	FITC
Immunogen	Human monocytes.
Form	Liquid
Concentration	0.1 mg/mL
Purification	Protein A
Storage buffer	PBS with 1% BSA
Contains	0.09% sodium azide
Storage conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles. Store in the dark.
RRID	AB_2184276

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	-	10 Publications
Flow Cytometry (Flow)	Neat	1 Publication

## Product Specific Information

This clone 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 cellDs in a wide range of species.

Membrane permeabilization is required for flow cytometry applications. Use 10 µL of the suggested working dilution to label 1x10<sup>6</sup> cells in 100 µL.

## 11 References

### Immunohistochemistry (10)

Chinese medical journal

#### Short-term safety and efficacy of the biodegradable iron stent in mini-swine coronary arteries.

"MA1-80263 was used in immunohistochemistry to use a mini-swine model to study the safety and efficacy of a coronary artery biodegradable iron stent"

Authors: Wu C, Qiu H, Hu XY, Ruan YM, Tian Y, Chu Y, Xu XL, Xu L, Tang Y, Gao RL

**Species**  
Pig

**Dilution**  
Not Cited

**Year**  
2014

Xenotransplantation

#### Xenotransplantation of human unrestricted somatic stem cells in a pig model of acute myocardial infarction.

"MA1-80263 was used in immunohistochemistry to study whether xenotransplantation with human CD34-/CD45-unrestricted somatic stem cells is of therapeutic benefit in a porcine model of acute myocardial infarction"

Authors: Gahremanpour A, Vela D, Zheng Y, Silva GV, Fodor W, Cardoso CO, Baimbridge F, Fernandes MR, Buja LM, Perin EC

**Species**  
Human

**Dilution**  
1:200

**Year**  
2013

[View more IHC references on thermofisher.com](#)

### Flow Cytometry (1)

Critical care medicine

#### Insulin increases resistance to burn wound infection-associated sepsis.

"MA1-80263 was used in flow cytometry to investigate the therapeutic efficacy of insulin on the treatment of sepsis"

Authors: Gauglitz GG, Toliver-Kinsky TE, Williams FN, Song J, Cui W, Herndon DN, Jeschke MG

**Species**  
Rat

**Dilution**  
Not Cited

**Year**  
2010

### More applications with references on thermofisher.com

For Research Use Only. Not for use in diagnostic procedures. Not for resale without express authorization. Products are warranted to operate or perform substantially in conformance with published Product specifications in effect at the time of sale, as set forth in the Production documentation, specifications and/or accompanying package inserts ("Documentation"). No claim of suitability for use in applications regulated by FDA is made. The warranty provided herein is valid only when used by properly trained individuals. Unless otherwise stated in the Documentation, this warranty is limited to one year from date of shipment when the Product is subjected to normal, proper and intended usage. This warranty does not extend to anyone other than the Buyer. Any model or sample furnished to Buyer is merely illustrative of the general type and quality of goods and does not represent that any Product will conform to such model or sample. NO OTHER WARRANTIES, EXPRESS OR IMPLIED, ARE GRANTED INCLUDING WITHOUT LIMITATION, IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR NON INFRINGEMENT. BUYER'S EXCLUSIVE REMEDY FOR NON-CONFORMING PRODUCTS DURING THE WARRANTY PERIOD IS LIMITED TO REPAIR, REPLACEMENT OF OR REFUND FOR THE NON-CONFORMING PRODUCT(S) AT SELLER'S SOLE OPTION. THERE IS NO OBLIGATION TO REPAIR, REPLACE OR REFUND FOR PRODUCTS AS THE RESULT OF (I) ACCIDENT, DISASTER OR EVENT OF FORCE MAJEURE, (II) MISUSE, FAULT OR NEGLIGENCE OF OR BY BUYER, (III) USE OF THE PRODUCTS IN A MANNER FOR WHICH THEY WERE NOT DESIGNED, OR (IV) IMPROPER STORAGE AND HANDLING OF THE PRODUCTS. Unless otherwise expressly stated on the Product or in the documentation accompanying the Product, the Product is intended for research only and is not to be used for any other purpose, including without limitation, unauthorized commercial uses, in vitro diagnostic uses, ex vivo or in vivo therapeutic uses, or any type of consumption by or application to human or animals.