

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/Isotope	Mouse / IgG1
Class	Monoclonal
Type	Antibody
Clone	MAC387
Conjugate	FITC
Immunogen	Human monocytes.
Form	Liquid
Concentration	0.1 mg/mL
Purification	Protein G
Storage buffer	PBS with 1% BSA
Contains	0.09% sodium azide
Storage Conditions	4°C or -20°C if preferred, store in dark
RRID	AB_2184276

Applications	Tested	Dilution	Published
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 cells in a wide range of species.

Membrane permeabilization is required for flow cytometry applications. Use 10 µL of the suggested working dilution to label 1x10⁶ 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

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