



Calprotectin Monoclonal Antibody (MAC387)

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, Mouse, Human		
Host/Isotype	Mouse / IgG1		
Class	Monoclonal		
Туре	Antibody		
Clone	MAC387		
Conjugate	Unconjugated		
Immunogen	Human monocytes.		
Form	Liquid		
Concentration	1 mg/mL		
Purification	Protein A		
Storage buffer	PBS		
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.		
RRID	AB_2184262		

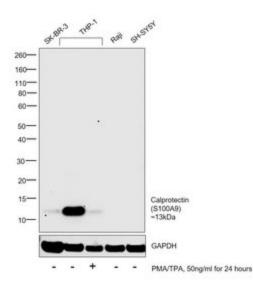
Applications	Tested Dilution	Publications
Western Blot (WB)	1:1,000	-
Immunohistochemistry (IHC)	-	13 Publications
Immunohistochemistry (Paraffin) (IHC (P))	1:100-1:200	3 Publications
Immunohistochemistry (Frozen) (IHC (F))	1:100-1:200	-
Immunocytochemistry (ICC/IF)	1:250	-
Flow Cytometry (Flow)	1:50-1:100	3 Publications

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.

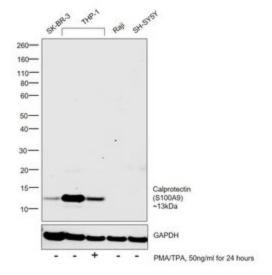
This product requires protein digestion pre-treatment of paraffin sections using trypsin or pronase prior to IHC staining. A suggested positive control is human spleen. For flow cytometry, use 10 μ L of the suggested working dilution to label 1x10^6 cells in 100 μ L.

Advanced Verification Data



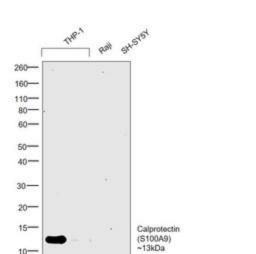
Calprotectin Antibody (MA1-81381)

Altered expression of target protein upon cell treatment demonstrates antibody specificity. Western blot analysis using Anti-Calprotectin (S100A9) Monoclonal Antibody (Product # MA1-80155) shows decreased expression upon treatment of THP-1 with PMA/TPA [10.1073/pnas.0709958105]. Cell treatment validation info.



Calprotectin Antibody (MA1-81381)

Altered expression of target protein upon cell treatment demonstrates antibody specificity. Western blot analysis using Anti-Calprotectin (S100A9) Monoclonal Antibody (Product # MA1-80446) shows decreased expression upon treatment of THP-1 with PMA/TPA [10.1073/pnas.0709958105]. Cell treatment validation info.



Calprotectin Antibody (MA1-81381)

Altered expression of target protein upon cell treatment demonstrates antibody specificity. Western blot analysis using Anti-Calprotectin (S100A9) Monoclonal Antibody (Product # MA1-81381) shows decreased expression upon treatment of THP-1 with PMA/TPA [10.1073/pnas.0709958105]. Cell treatment validation info.

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GAPDH

PMA/TPA, 50ng/ml for 24 hours

■ 19 References

Immunohistochemistry (13)

Scientific reports

Experimental fortification of intestinal anastomoses with nanofibrous materials in a large animal model.

"Published figure using Calprotectin monoclonal antibody (Product # MA1-81381) in Immunohistochemistry"

Authors: Rosendorf J,Horakova J,Klicova M,Palek R,Cervenkova L,Kural T,Hosek P,Kriz T,Tegl V,Moulisova V,Tonar Z, Treska V,Lukas D,Liska V

Dilution Not Cited

Species Not Applicable

Year 2020

Transplantation

A Skin Rejection Grading System for Vascularized Composite Allotransplantation in a Preclinical Large Animal Model.

Authors: Etra JW,Grzelak MJ,Fidder SAJ,Kolegraff K,Bonawitz S,Shores J,Oh B,Cooney DS,Beck SE,Brandacher G

Species

Pig

DilutionNot Cited

Year 2019

View more IHC references on thermofisher.com

Immunohistochemistry (Paraffin) (3)

AJNR. American journal of neuroradiology

Differential Interstrain Susceptibility to Vertebrobasilar Dolichoectasia in a Mouse Model.

"MA181381 was used in immunohistochemistry - paraffin section to assess the differential susceptibility to elastaseinduced vertebrobasilar dolichoectasia induction"

Authors: Zhu YQ,Xing H,Dai D,Kallmes DF,Kadirvel R

Species

Mouse

Dilution 1:200

Year 2017

PloS one

Identification of the critical therapeutic entity in secreted Hsp90 that promotes wound healing in newly re-standardized healthy and diabetic pig models.

"MA1-80446 was used in immunohistochemistry - paraffin section to characterize the therapeutic component of secreted Hsp90alpha that promotes wound healing in diabetic and healthy pig models that were re-standardized"

Authors: O'Brien K,Bhatia A,Tsen F,Chen M,Wong AK,Woodley DT,Li W

Species

Not Applicable

Dilution 1:100

Year 2015

View more IHC (P) references on thermofisher.com

More applications with references on thermofisher.com

Flow (3)

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