

S100A9 Polyclonal Antibody

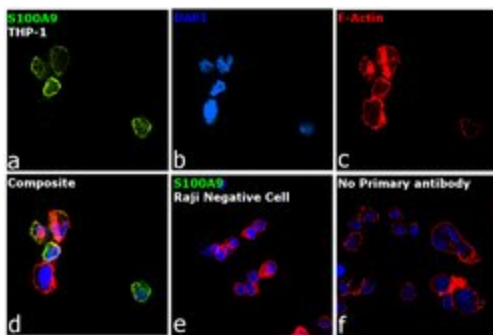
Product Details	
Size	100 µL
Species Reactivity	Human, Mouse, Rat
Published Species	Human
Host/Isotype	Rabbit / IgG
Class	Polyclonal
Type	Antibody
Conjugate	Unconjugated
Immunogen	Full length human S100A9 protein expressed in E. coli.
Form	Liquid
Concentration	Conc. Not Determined
Storage buffer	whole serum
Contains	0.1% sodium azide
Storage Conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.
RRID	AB_10977234

Applications	Tested Dilution	Publications
Western Blot (WB)	1:1000	1 Publication
Immunohistochemistry (Paraffin) (IHC (P))	Assay-Dependent	-
Miscellaneous PubMed (Misc)	-	1 Publication
Immunocytochemistry (ICC/IF)	1:50-1:250	-

Product Specific Information

Suggested positive control: antigen standard for S100A9 (transient overexpression lysate), HL-60 + DMSO.

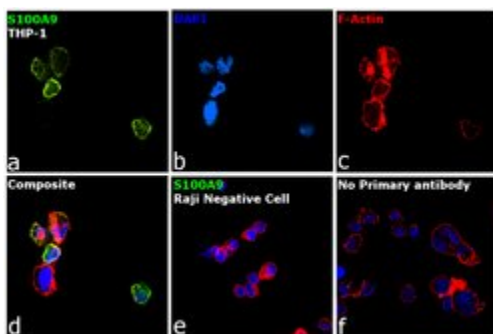
Advanced Verification Data



S100A9 Antibody (PA1-46489)

Antibody specificity was demonstrated by detection of differential basal expression of the target across cell models owing to their inherent genetic constitution. Immunofluorescence analysis using Anti-S100A9 Polyclonal Antibody (Product # PA1-46489) shows increased expression of S100A9 in THP-1 cell line when compared to Raji. Relative expression validation info.

Product Images For S100A9 Polyclonal Antibody

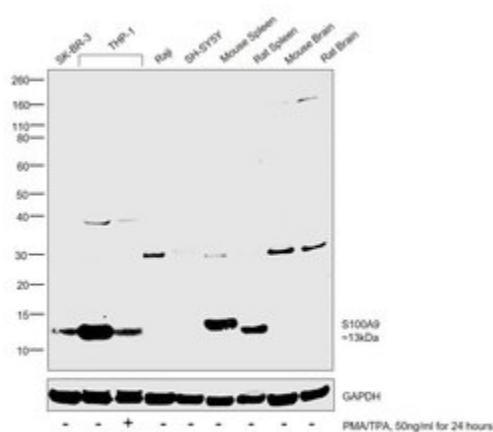


S100A9 Antibody (PA1-46489) in ICC/IF

Immunofluorescence analysis of S100A9 was performed using log phase THP-1 and Raji cells. The cells were fixed with 4% paraformaldehyde for 10 minutes, permeabilized with 0.1% Triton™ X-100 for 15 minutes, and blocked with 2% BSA for 1 hour at room temperature. The cells were labeled with S100A9 Polyclonal Antibody (Product # PA1-46489) at 1:200 dilution in 0.1% BSA, incubated at 4 degree Celsius overnight and then labeled with Donkey anti-Rabbit IgG (H+L) Highly Cross-Adsorbed Secondary Antibody, Alexa Fluor Plus 488 (Product # A32790) at a dilution of 1:2000 for 45 minutes at room temperature (Panel a: green). Nuclei (Panel b: blue) were stained with SlowFade® Gold Antifade Mountant with DAPI (Product # S36938). F-actin (Panel c: red) was stained with Rhodamine Phalloidin (Product # R415, 1:300). Panel d represents the merged image showing localization to plasma membrane, nucleus and cytoplasm. Panel e shows Raji cells with no expression of S100A9. Panel f represents control cells with no primary antibody to assess background. The images were captured at 60X magnification.

S100A9 Antibody (PA1-46489) in WB

Western blot was performed using Anti-S100A9 Polyclonal Antibody (Product # PA1-46489) and a 13kDa band corresponding to S100A9 was observed in SK-BR-3, THP-1, Mouse Spleen and Rat Spleen but was absent in Raji, SH-SY5Y, Mouse Brain and Rat Brain which are reported to be negative. Expression of Calprotectin S100A9 was downregulated upon treatment of THP-1 with PMA/TPA [10.1073/pnas.0709958105]. Membrane enriched cell extracts (30 µg lysate) of SK-BR-3 (Lane 1), THP-1 (Lane 2), THP-1 treated with PMA/TPA (50ng/ml for 24 hours) (Lane 3), Raji (Lane 4), SH-SY5Y (Lane 5), Mouse Spleen (Lane 6), Rat Spleen (Lane 7), Mouse Brain (Lane 8) and Rat Brain (Lane 9) were electrophoresed using Novex® NuPAGE® 4-12 % Bis-Tris gel (Product # NP0322BOX). Resolved proteins were then transferred onto a nitrocellulose membrane (Product # IB23001) by iBlot® 2 Dry Blotting System (Product # IB21001). The blot was probed with the primary antibody (1:1000 dilution) and detected by chemiluminescence with Goat anti-Rabbit IgG (H+L), Superclonal™ Recombinant Secondary Antibody, HRP (Product # A27036, 1:4000 dilution) using the iBright FL 1000 (Product # A32752). Chemiluminescent detection was performed using Novex® ECL Chemiluminescent Substrate Reagent Kit (Product # WP20005).



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Western Blot (1)

Proteome science

Analysis of protein expression in periodontal pocket tissue: a preliminary study.

"PA1-46489 was used in western blot to determine the proteomic profile of periodontally-affected patients"

Authors: Monari E,Cuoghi A,Bellei E,Bergamini S,Lucchi A,Tomasi A,Cortellini P,Zaffe D,Bertoldi C

Species

Human
Not Applicable

Dilution

1:1000
Not Cited

Year

2015

Miscellaneous PubMed (1)

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