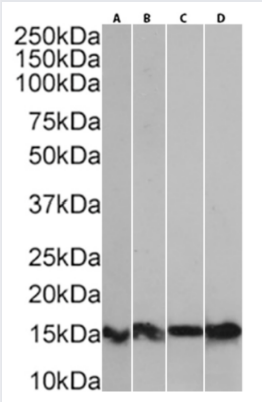
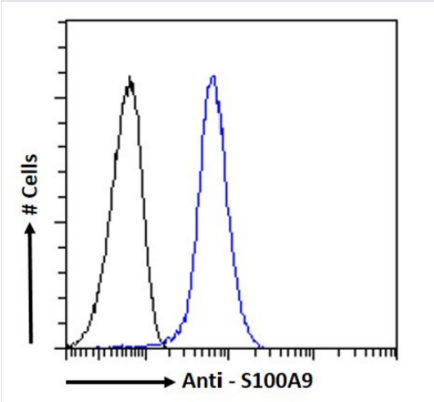
S100A9 Antibody

PRODUCT OVERVIEW

Product Name	S100A9, Antibody
Full Product Name	Anti-S100A9 [IID4B10]
Product Gene Name	anti-S100A9 antibody
Product Synonym Names	Protein S100-A9; Calgranulin-B; Calprotectin L1H subunit; Leukocyte L1 complex heavy chain; Migration inhibitory factor-related protein 14; MRP-14; p14; S100 calcium-binding protein A9
Isotype	Rabbit IgG kappa
Clone Number	IID4B10
Species Reactivity	Human
Form/Format	PBS with 0.02% Proclin 300.
Purity/Purification	Purified. Protein A affinity purified
Concentration	1mg/ml (lot specific)
Specificity	This antibody is specific for the S100A9 protein and does not cross react with S100A8, S100A12 or S100A13.
Preparation and Storage	Store at 4 degree C for up to 3 months. For longer storage, aliquot and store at -20 degree C.
Molecular Weight	13,242 Da
OMIM	123886
3D Structure	ModBase 3D Structure for P06702
Animal-free Manufacturing Platform	The recombinant antibody is manufactured using a recombinant, mammalian HEK293-based expression platform. The manufacturing platform is animal-free and animal component-free.
Product Categories/Family for anti-S100A9 antibody	cancer; oncology; immunity; apoptosis
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-S100A9 antibody	ELISA (EIA), Immunohistochemistry (IHC), Western Blot (WB)
Application Notes for anti-S100A9 antibody	This antibody was used for ELISA on recombinant S100A9 protein (CN104894074). Western blot was performed on S100A9, S100A8, S100A12 and S100A13 using this antibody (CN104894074). Immunohistochemistry was performed on human breast cancer, colon cancer, and hepatocellular carcinoma tissues using this antibody (CN104894074).
Related Product Information for anti-S100A9 antibody	The original antibody was raised by immunizing Balb/c mice with human blood cells. This chimeric rabbit antibody was made using the variable domain sequences of the original Mouse IgG1 format, for improved compatibility with existing reagents, assays and techniques.
Product References and Citations for anti-S100A9 antibody	Wendi et al.N/A
Other Notes	Small volumes of anti-S100A9 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for S100A9 purchase	MBS489046 is an antibody targeting S100A9. Also known as Anti-S100A9 [IID4B10]. Reactive in Human.



Western Blot (WB) of anti-S100A9 antibody
Western Blot using Anti-S100A9 antibody IID4B10 . Human PBM(A) (0.01µg/ml), human spleen(B) (0.1ug/ml), human tonsil(C) (0.001ug/ml) and human bone marrow(D) (0.001ug/ml) tissue lysates (35µg protein in RIPA buffer) were resolved on a SDS PAGE gel and blots were probed with the chimeric mouse version of IID4B10 before detection using an anti-mouse secondary antibody. A primary incubation of 1h was used and protein was detected by chemiluminescence.



Immunofluorescence (IF) of anti-S100A9 antibody
Immunofluorescence staining of U937 cells with Anti-S100A9 IID4B10 Immunofluorescence analysis of paraformaldehyde fixed U937 cells immobilized on Shi-fix™ plus cover-slips, permeabilized with 0.15% Triton stained with the chimeric mouse IgG1 version of IID4B10 (1:100 dilution) for 1h followed by Alexa Fluor 488 secondary antibody (1:1000 dilution), showing nuclear and cytoplasmic staining. The nuclear stain is DAPI (blue). Panels show from left-right, top-bottom, DAPI, merged channels and an isotype control. The isotype control was an unknown specificity antibody (isotype control, black line) or the mouse IgG1 version of IID4B10 at a dilution of 1:100 for 1h at RT. After washing, the bound antibody was detected using a goat anti-rabbit IgG AlexaFluor 488 antibody at a dilution of 1:1000 and cells analyzed using a FACSCanto flow-cytometer.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for S100A9. It may not necessarily be applicable to this product.

NCBI GI #	49457442
NCBI GeneID	0
NCBI Accession #	CAG47020.1
UniProt Primary Accession #	P06702
UniProt Secondary Accession #	Q6FGA1; Q9NYM0; Q9UCJ1; D3DV36
NCBI Official Full Name	S100A9
UniProt Protein Name	Protein S100-A9
UniProt Synonym Protein Names	Calgranulin-B; Calprotectin L1H subunit; Leukocyte L1 complex heavy chain; Migration inhibitory factor-related protein 14; MRP-14; p14; S100 calcium-binding protein A9
Protein Family	Protein
UniProt Gene Name	S100A9
UniProt Synonym Gene Names	CAGB; CFAG; MRP14; MRP-14; p14
UniProt Entry Name	S10A9_HUMAN

UniProt Comments for S100A9	S100A9: a calcium-binding regulatory protein of the S-100 family expressed by macrophages in acutely inflammated tissues and in chronic inflammations. May be an inhibitor of protein kinases. Also expressed in epithelial cells constitutively or induced during dermatoses. May interact with components of the intermediate filaments in monocytes and epithelial cells. Interacts with CEACAM3 in a calcium-dependent manner. Protein type: Calcium-binding Chromosomal Location of Human Ortholog: 1q21 Cellular Component: extracellular space; cytoskeleton; plasma membrane; extracellular region; cytosol; nucleus Molecular Function: arachidonic acid binding; antioxidant activity; signal transducer activity; protein binding; RAGE receptor binding; zinc ion binding; microtubule binding; calcium ion binding Biological Process: caspase activation; neutrophil chemotaxis; chemokine production; chronic inflammatory response; cytokine production; response to lipopolysaccharide; positive regulation of peptide secretion; signal transduction; positive regulation of cell growth; leukocyte migration during inflammatory response; activation of NF-kappaB transcription factor; sequestering of zinc ion; response to ethanol; cell-cell signaling; response to zinc ion; actin cytoskeleton reorganization; defense response to bacterium; autophagy; innate immune response; regulation of integrin biosynthetic process; inflammatory response; defense response to fungus; regulation of cytoskeleton organization and biogenesis; positive regulation of inflammatory response
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