S100A9 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	S100A9, Polyclonal Antibody
Full Product Name	S100A9 (S100 Calcium Binding Protein A9, 60B8AG, Calgranulin B, CAGB, Calprotectin L1H Subunit, CFAG, CGLB, Cystic Fibrosis Antigen, L1AG, L Complex Heavy Chain, LIAG, MAC387, Migration Inhibitory Factor-related Protein 14, MIF Related Protein
Product Gene Name	anti-S100A9 antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight650.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Specificity	Recognizes human S100A9.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amo immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight650 conjugates are sensitive to light. For maximum recovery of produc original vial prior to removing the cap.
Molecular Weight	13,242 Da
OMIM	123886
3D Structure	ModBase 3D Structure for P06702
Immunogen	Full length human S100A9, aa1-114 (NP_002956.1).
Immunogen Sequence	MTCKMSQLERNIETIINTFHQYSVKLGHPDTLNQGEFKELVRKDLQNFLKKENKNEKVIEHIMEDLDTNADKQLSFEEFIMLMARLTWASHEKMHEGDEGP
Conjugate	MaxLight650
Note	Preservative Free
Product Categories/Family for anti-S100A9 antibody	Antibodies; Binding Proteins; Calcium
Applications Tested/Suitable for anti-S100A9 antibody	Western Blot (WB)
Application Notes for anti-S100A9 antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-S100A9 antibody	S100 Calcium Binding Protein A9, also known as Calgranulin B, belongs to the S100 family containing EF-hand type Ca2+-binding proteins. It is involv of a number of cellular processes such as cell cycle progression and differentiation, and associated with the disease cystic fibrosis. S100A9 has been i abnormal differentiation of myeloid cells in the stroma of cancer. This protein may function in the inhibition of casein kinase.

Product References and Citations for anti-S100A9 antibody	1. Restoration of anti-Aspergillus defense by neutrophil extracellular traps in human chronic granulomatous disease after gene therapy is calprotectin-d M, Niemiec MJ, Siler U, Urban CF, Reichenbach J.J Allergy Clin Immunol. 2011 Mar 2.
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 neces 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 apply.
Searchable Terms for S100A9 purchase	MBS6393208 is an antibody targeting S100A9. Also known as S100A9 (S100 Calcium Binding Protein A9, 60B8AG, Calgranulin B, CAGB, Calprotectin CFAG, CGLB, Cystic Fibrosis Antigen, L1AG, Leukocyte L1 Complex Heavy Chain, LIAG, MAC387, Migration Inhibitory Factor-related Protein 14, MIF Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

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

NCBI GI #	4506773
NCBI GeneID	6280
NCBI Accession #	NP_002956.1
UniProt Primary Accession #	P06702
UniProt Secondary Accession #	Q6FGA1; Q9NYM0; Q9UCJ1; D3DV36
UniProt Related Accession #	P06702
GenBank Nucleotide #	NM_002965.2
NCBI Official Full Name	protein S100-A9
NCBI Official Synonym Full Names	S100 calcium binding protein A9
NCBI Official Symbol	S100A9
NCBI Official Synonym Symbols	MIF; NIF; P14; CAGB; CFAG; CGLB; L1AG; LIAG; MRP14; 60B8AG; MAC387
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
NCBI Protein Information	protein S100-A9; MRP-14; S100 calcium-binding protein A9 (calgranulin B); calgranulin-B; calprotectin L1H subunit; leukocyte L1 complex heavy chain; migration inhibitory factor-related protein 14
NCBI Summary for S100A9	The protein encoded by this gene is a member of the S100 family of proteins containing 2 EF-hand calcium-binding motifs. S100 proteins are localized in the cytoplasm and/or nucleus of a wide range of cells, and involved in the regulation of a number of cellular processes such as cell cycle progression and differentiation. S100 genes include at least 13 members which are located as a cluster on chromosome 1q21. This protein may function in the inhibition of casein kinase and altered expression of this protein is associated with the disease cystic fibrosis. This antimicrobial protein exhibits antifungal and antibacterial activity. [provided by RefSeq, Nov 2014]

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
Research Articles on S100A9	**1.** the SSc epidermis provides an important source of pro-fibrotic CCN2 and proinflammatory S100A9 in SSc skin, and therefore contributes to the fibrosis and inflammation seen in the disease
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