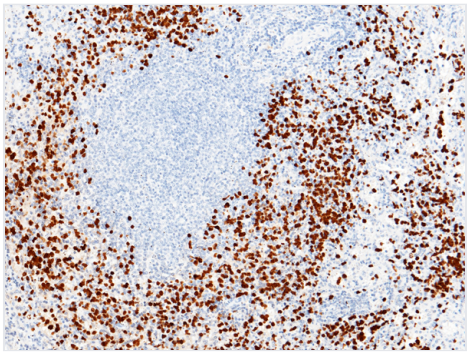
S100A9 Antibody – Rabbit Monoclonal

PRODUCT OVERVIEW

Product Name	S100A9, Monoclonal Antibody
Full Product Name	Recombinant Anti-S100A9 Antibody, Rabbit Monoclonal
Product Gene Name	anti-S100A9 antibody
Product Synonym Names	S100A9 Antibody, Rabbit MAb; S100 calcium binding protein A9; Anti-60B8AG Antibody; Anti-CAGB Antibody; Anti-CFAG Antibody; Anti-CGLB Antibody; Anti-L1AG Antibody; Anti-LIAG Antibody; Anti-MAC387 Antibody; Anti-MIF Antibody; Anti-MRP-14 Antibody; Anti-MRP14 Antibody; Anti-NIF Antibody; Anti-P14 Antibody
Clonality	Monoclonal
Isotype	Rabbit IgG
Clone Number	209
Host	Rabbit
Species Reactivity	Human
Form/Format	Liquid; 0.2um filtered solution in PBS
Purity/Purification	Protein A
Specificity	Human S100A9. No cross-reactivity in ELISA with Human S100A1, Human S100A2, Human S100A7, Human S100A8, Human S100A11, Human S100A13, Mouse S100A6
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Preservative-Free. Avoid repeated freeze-thaw cycles.
Matching Pairs	Antibody: S100A9 Clone #209 (MBS8104956) Immunogen: S100A9 (MBS8118664)
Molecular Weight	13,242 Da
OMIM	123886
3D Structure	ModBase 3D Structure for P06702
Antibody Type	Recombinant Antibody
Immunogen	Recombinant Human S100A9 protein
Conjugation	Unconjugated
Preparation	This antibody was obtained from a rabbit immunized with purified, recombinant Human S100A9 (rh S100A9).
Product Categories/Family for anti-S100A9 antibody	Calcium-binding Proteins and Related Molecules
Applications Tested/Suitable for anti-S100A9 antibody	Immunohistochemistry-Paraffin (IHC-P)
Application Notes for anti-S100A9 antibody	IHC-P: 1:100-1:500

Related Product Information for anti-S100A9 antibody	S100 protein is a family of low molecular weight protein found in vertebrates characterized by two EF-hand calcium-binding motifs. There are at least 21 different S100 proteins, and the name is derived from the fact that the protein is 100% soluble in ammonium sulfate at neutral pH. Most S100 proteins are disulfide-linked homodimer, and is normally present in cells derived from the neural crest, chondrocytes, macrophages, dendritic cells, etc. S100 proteins have been implicated in a variety of intracellular and extracellular functions. They are involved in regulation of protein phosphorylation, transcription factors, the dynamics of cytoskeleton constituents, enzyme activities, cell growth and differentiation, and the inflammatory response. Protein S100-A9, also known as S100 calciumbinding protein A9, S100A9, and CAGB, is a member of the S-100 family. S100A9 is expressed by macrophages in acutely inflammed tissues and in chronic inflammation. It is also expressed in epithelial cells constitutively or induced during dermatoses. S100A9 is a calcium-binding protein. It has anti-microbial activity towards bacteria and fungi. The anti-microbial and proapoptotic activity of S100A9 is inhibited by zinc ions. S100A9 plays a role in the development of endotoxic shock in response to bacterial lipopolysaccharide (LPS). It promotes tubulin polymerization when unphosphorylated. It also promotes phagocyte migration and infiltration of granulocytes at sites of wounding. S100A9 plays a role as a proinflammatory mediator in acute and chronic inflammation and up-regulates the release of IL8 and cell-surface expression of ICAM1.
Product References and Citations for anti-S100A9 antibody	Miyasaki KT. et al., 1993, J Dent Res. 72: 517-23. Fano G. et al., 1995, Prog Neurobiol. 46 (1): 71-82. Vogl T. et al., 2004, Blood. 104: 4260-8. Viemann D. et al., 2005, Blood. 105: 2955-62. Nakatani Y. et al., 2005, Mediators Inflamm. 2005: 280-92. Bjoerk P. et al., 2009, PLoS Biol. 7: E97-E97.
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	MBS8104956 is an antibody targeting S100A9. Also known as Recombinant Anti-S100A9 Antibody, Rabbit Monoclonal. Reactive in Human. Host: Rabbit.



Immunohistochemistry (IHC) of anti-S100A9 antibody
Immunochemical staining of human S100A9 in human spleen with rabbit monoclonal antibody (1:200, formalin-fixed paraffin embedded sections).

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_002965.3
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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