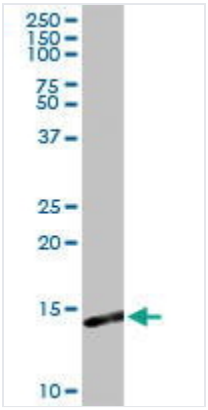
# S100A9 Antibody – Rabbit Polyclonal

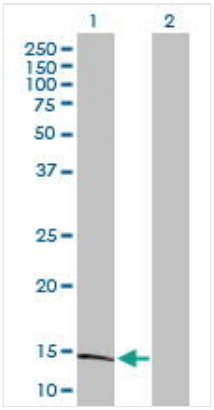
## PRODUCT OVERVIEW

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| **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 Alkaline Phosphatase (AP). |
| **Purity/Purification** | Purified by Protein A Affinity Chromatography. |
| **Specificity** | Recognizes human S100A9. |
| **Preparation and Storage** | Store product at 4 degree C. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only pri Further dilutions can be made in assay buffer. For maximum recovery of product, centrifuge the 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** | AP |
| **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. |

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| **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** | MBS6393200 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. |




**Western Blot (WB) of anti-S100A9 antibody**
S100A9 rabbit polyclonal antibody. Western Blot analysis of S100A9 expression in human spleen.




**Western Blot (WB) of anti-S100A9 antibody**
Western Blot analysis of S100A9 expression in transfected 293T cell line by S100A9 polyclonal antibody. Lane 1: S100A9 transfected lysate (13.2kD). Lane 2: Non-transfected lysate.

## ADDITIONAL DETAILS

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

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|---|---|
| **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 |

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| **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.<br><br>Protein type: Calcium-binding<br><br>Chromosomal Location of Human Ortholog: 1q21<br><br>Cellular Component: extracellular space; cytoskeleton; plasma membrane; extracellular region; cytosol; nucleus<br><br>Molecular Function: arachidonic acid binding; antioxidant activity; signal transducer activity; protein binding; RAGE receptor binding; zinc ion binding; microtubule binding; calcium ion binding<br><br>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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