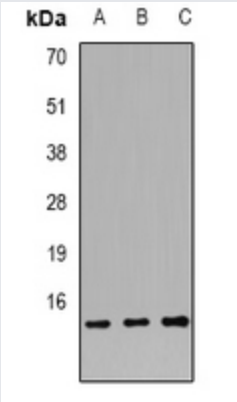
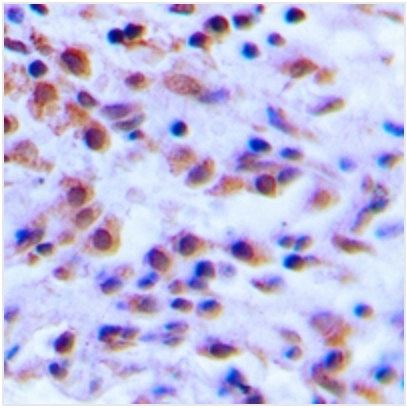
S100-A12 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

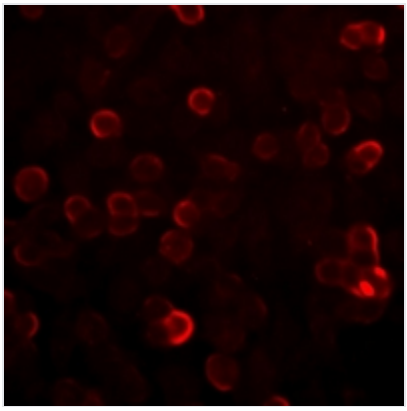
Product Name	S100-A12, Polyclonal Antibody
Full Product Name	Rabbit anti-S100-A12 Antibody
Product Gene Name	anti-S100-A12 antibody
Product Synonym Names	Protein S100-A12; CGRP; Calcium-binding protein in amniotic fluid 1; CAAF1; Calgranulin-C; CAGC; Extracellular newly identified RAGE-binding protein; EN-RAGE; Migration inhibitory factor-related protein 6; MRP-6; p6; Neutrophil S100 protein; S100 calcium-binding protein A12
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human
Form/Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Purity/Purification	The antibody was purified by immunogen affinity chromatography.
Concentration	1mg/mL (lot specific)
Preparation and Storage	Store at -20 degree C. Avoid repeated freeze/thaw cycles.
Molecular Weight	92
OMIM	603112
3D Structure	ModBase 3D Structure for P80511
Immunogen	Recombinant full length protein of human S100-A12
Product Categories/Family for anti-S100-A12 antibody	Primary antibodies
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Applications Tested/Suitable for anti-S100-A12 antibody	Western Blot (WB), Immunohistochemistry (IHC), Immunofluorescence (IF), Immunochemistry (IC)
Application Notes for anti-S100-A12 antibody	WB: 1:500-1:2000 IHC: 1:50-1:200 IF:IC: 1:50-1:200
Related Product Information for anti-S100-A12 antibody	MBS4507806 is an antibody targeting S100-A12. Also known as Rabbit anti-S100-A12 Antibody. Reactive in Human. Host: Rabbit.
Other Notes	Small volumes of anti-S100-A12 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.



Western Blot (WB) of anti-S100-A12 antibody
Western blot analysis of S100-A12 expression in HL60 (A), SW620 (B), K562 (C) whole cell lysates.



Immunohistochemistry (IHC) of anti-S100-A12 antibody
Immunohistochemical analysis of S100-A12 staining in human lung cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Immunofluorescence (IF) of anti-S100-A12 antibody
Immunofluorescent analysis of S100-A12 staining in SW620 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with a DyLight 594-conjugated secondary antibody (red) in PBS at room temperature in the dark.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for S100-A12. It may not necessarily be applicable to this product.

NCBI GI #	2507565
NCBI GeneID	6283
NCBI Accession #	P80511.2
UniProt Primary Accession #	P80511
UniProt Secondary Accession #	P83219; Q5SY66; Q7M4R1
UniProt Related Accession #	P80511
NCBI Official Full Name	Protein S100-A12
NCBI Official Synonym Full Names	S100 calcium binding protein A12
NCBI Official Symbol	S100A12
NCBI Official Synonym Symbols	p6; CAGC; CGRP; MRP6; CAAF1; MRP-6; ENRAGE

UniProt Protein Name	Protein S100-A12
UniProt Synonym Protein Names	CGRP; Calcium-binding protein in amniotic fluid 1; CAAF1; Calgranulin-C; CAGC; Extracellular newly identified RAGE-binding protein; EN-RAGE; Migration inhibitory factor-related protein 6; MRP-6; p6; Neutrophil S100 protein; S100 calcium-binding protein A12Calcitermin
Protein Family	Protein
UniProt Gene Name	S100A12
UniProt Synonym Gene Names	CAAF1; CAGC; EN-RAGE; MRP-6; p6
UniProt Entry Name	S10AC_HUMAN
NCBI Protein Information	protein S100-A12; EN-RAGE; calcitermin; calgranulin C; calgranulin-C; neutrophil S100 protein; calcium-binding protein in amniotic fluid 1; migration inhibitory factor-related protein 6; S100 calcium-binding protein A12 (calgranulin C); extracellular newl
NCBI Summary for S100-A12	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 is proposed to be involved in specific calcium-dependent signal transduction pathways and its regulatory effect on cytoskeletal components may modulate various neutrophil activities. The protein includes an antimicrobial peptide which has antibacterial activity. [provided by RefSeq, Nov 2014]
UniProt Comments for S100-A12	S100A12: S100A12 is a calcium-, zinc- and copper-binding protein which plays a prominent role in the regulation of inflammatory processes and immune response. Its proinflammatory activity involves recruitment of leukocytes, promotion of cytokine and chemokine production, and regulation of leukocyte adhesion and migration. Acts as an alarmin or a danger associated molecular pattern (DAMP) molecule and stimulates innate immune cells via binding to receptor for advanced glycation endproducts (AGER). Binding to AGER activates the MAP-kinase and NF-kappa-B signaling pathways leading to production of proinflammatory cytokines and up-regulation of cell adhesion molecules ICAM1 and VCAM1. Acts as a monocyte and mast cell chemoattractant. Can stimulate mast cell degranulation and activation which generates chemokines, histamine and cytokines inducing further leukocyte recruitment to the sites of inflammation. Can inhibit the activity of matrix metalloproteinases; MMP2, MMP3 and MMP9 by chelating Zn(2+) from their active sites. Possesses filariacidal and filariastatic activity. Calcitermin possesses antifungal activity against C.albicans and is also active against E.coli and P.aeruginosa but not L.monocytogenes and S.aureus. Belongs to the S-101 family. Chromosomal Location of Human Ortholog: 1q21 Cellular Component: cytoskeleton; cytoplasm; extracellular region; plasma membrane; nucleus; cytosol Molecular Function: protein binding; RAGE receptor binding; copper ion binding; zinc ion binding; calcium ion binding Biological Process: neutrophil chemotaxis; positive regulation of MAP kinase activity; monocyte chemotaxis; positive regulation of I-kappaB kinase/NF-kappaB cascade; killing of cells of another organism; xenobiotic metabolic process; defense response to bacterium; innate immune response; inflammatory response; defense response to fungus; mast cell activation; cytokine secretion; activation of NF-kappaB transcription factor; positive regulation of inflammatory response
Research Articles on S100-A12	**1.** Data indicate that the plasma levels of S100A9, S100A8, and S100A12 were elevated in acute pancreatitis but a definitive difference between the severe and mild forms of the disease.
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