

Rabbit anti-Mouse Protein S100-A8 Polyclonal Antibody | anti-S100-A8 antibody

Rabbit anti-mouse Protein S100-A8 polyclonal Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA119487	Rabbit	Mouse	Immunohistochemistry, ELISA

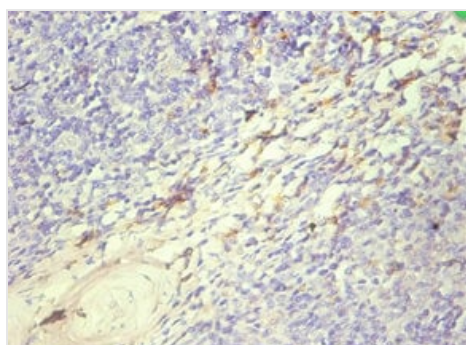
PRODUCT SYNONYMS

Protein S100-A8; Polyclonal Antibody; Rabbit anti-mouse Protein S100-A8 polyclonal Antibody; Calgranulin-A; Chemotactic cytokine CP-10; Leukocyte L1 complex light chain; Migration inhibitory factor-related protein 8; Pro-inflammatory S100 cytokine; S100 calcium-binding protein A8; Caga; Mrp8; S100a8; anti-S100-A8 antibody

PRODUCT SPECIFICATIONS

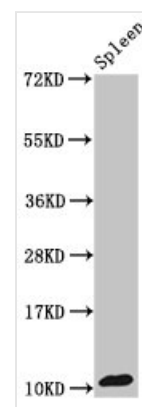
Host	Rabbit
Reactivity	Mouse
Clonality	Polyclonal
Isotype	IgG
Purity/Purification	Caprylic Acid Ammonium Sulfate Precipitation
Sequence Length	89
Applicable Applications for anti-S100-A8 antibody	IHC (Immunohistochemistry), ELISA
Storage Buffer	Preservative: 0.03% Proclin 300 Constituents: 50% Glycerol, 0.01M PBS, PH 7.4
Conjugate	Non-conjugated
Immunogen	Recombinant mouse Protein S100-A8 protein(1-93aa)
Preparation and Storage	Shipped at 4 degree C. Upon delivery aliquot and store at -20 degree C or -80 degree C. Avoid repeated freeze.

IMAGES



IHC (Immunohistochemistry)

Immunohistochemistry of paraffin-embedded human tonsil tissue using AAA119487 at dilution 1:100



WB (Western Blot)

Western Blot Positive WB detected in: Mouse spleen tissue All lanes: S100a8 antibody at 3ug/ml Secondary Goat polyclonal to rabbit IgG at 1/50000 dilution Predicted band size: 11 KDa Observed band size: 11 KDa

ADDITIONAL INFORMATION

Related Product Information for anti-S100-A8 antibody

S100A8 is a calcium- and zinc-binding protein which plays a prominent role in the regulation of inflammatory processes and immune response. It can induce neutrophil chemotaxis and adhesion. Predominantly found as calprotectin (S100A8/A9) which has a wide plethora of intra- and extracellular functions. The intracellular functions include: facilitating leukocyte arachidonic acid trafficking and metabolism, modulation of the tubulin-dependent cytoskeleton during migration of phagocytes and activation of the neutrophilic NADPH-oxidase. Activates NADPH-oxidase by facilitating the enzyme complex assembly at the cell membrane, transferring arachidonic acid, an essential cofactor, to the enzyme complex and S100A8 contributes to the enzyme assembly by directly binding to NCF2/P67PHOX. The extracellular functions involve proinflammatory, antimicrobial, oxidant-scavenging and apoptosis-inducing activities. Its proinflammatory activity includes 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 pattern recognition receptors such as Toll-like receptor 4 (TLR4) and receptor for advanced glycation endproducts (AGER). Binding to TLR4 and AGER activates the MAP-kinase and NF-kappa-B signaling pathways resulting in the amplification of the proinflammatory cascade. Has antimicrobial activity towards bacteria and fungi and exerts its antimicrobial activity probably via chelation of Zn²⁺ which is essential for microbial growth. Can induce cell death via autophagy and apoptosis and this occurs through the cross-talk of mitochondria and lysosomes via reactive oxygen species (ROS) and the process involves BNIP3. Can regulate neutrophil number and apoptosis by an anti-apoptotic effect; regulates cell survival via ITGAM/ITGB and TLR4 and a signaling mechanism involving MEK-ERK. Its role as an oxidant scavenger has a protective role in preventing exaggerated tissue damage by scavenging oxidants.

NCBI AND UNIPROT INFORMATION

NCBI GI #	7305453
NCBI GeneID	20201
NCBI Accession #	NP_038678.1
NCBI GenBank Nucleotide #	NM_013650.2
UniProt Accession #	P27005; P31724
Molecular Weight	10,295 Da
NCBI Official Full Name	protein S100-A8
NCBI Official Synonym Full Names	S100 calcium binding protein A8 (calgranulin A)
NCBI Official Symbol	S100a8
NCBI Official Synonym Symbols	p8; B8Ag; CFAg; Caga; MRP8; CP-10; 60B8Ag; AI323541
NCBI Protein Information	protein S100-A8
UniProt Protein Name	Protein S100-A8
UniProt Gene Name	S100a8
UniProt Synonym Gene Names	Caga; Mrp8; MRP-8; p8
UniProt Entry Name	S10A8_MOUSE

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/polyclonal/protein-s100-a8-antibody-immunohistochemistry-elisa/119487>