

Rat anti-Mouse S100A8 Monoclonal Antibody | anti-S100A8 antibody

S100A8 (MRP-8)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA14670	Rat	Mouse	ELISA, Western Blot, Immunocytochemistry

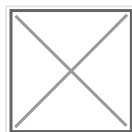
PRODUCT SYNONYMS

S100A8; Monoclonal Antibody; S100A8 (MRP-8); Anti -S100A8 (MRP-8); anti-S100A8 antibody

PRODUCT SPECIFICATIONS

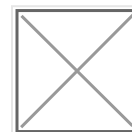
Host	Rat
Reactivity	Mouse
Clonality	Monoclonal
Isotype	IgG2b
Clone Number	8H150
Specificity	Recognizes mouse S100A8. Species Crossreactivity: Recombinant human S100A8: ~40%. No crossreactivity is observed with recombinant mouse s100A4, recombinant mouse S100A9, recombinant mouse S100A10, recombinant mouse S100A11, recombinant human S100B or recombinant human S100P.
Purity/Purification	Purified by Protein G affinity chromatography from hybridoma culture supernatant.
Form/Format	Supplied as a lyophilized powder from PBS, pH 7.4, 5% trehalose. Reconstitute with 200ul sterile PBS.
Concentration	~0.5 mg/ml (after reconstitution) (varies by lot)
Applicable Applications for anti-S100A8 antibody	ELISA, WB (Western Blot), ICC (Immunocytochemistry)
Application Notes	Western Blot: 2ug/ml using mouse leukocyte Immunocytochemistry: 8-25 ug/ml using immersion fixed NIH-3T3 mouse embryonic fibroblast cell line Optimal dilutions to be determined by the researcher.
Grade	Affinity Purified
Immunogen	Recombinant protein corresponding to Met1-Glu89 (predicted) from mouse S100A8, expressed in E. coli.
Preparation and Storage	Lyophilized and reconstituted products are stable for 12 months after receipt at -20 degree C. Reconstitute with sterile PBS. Aliquot to avoid repeated freezing and thawing. Store at -20 degree C. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap. Further dilutions can be made in assay buffer.

IMAGES



Application Data

S100A8 in NIH-3T3 mouse cell line: S100A8 was detected in immersion fixed NIH-3T3 mouse embryonic fibroblast cell line using 10ug/mL AAA14670 for 3 hours at RT. Cells were stained (red) and counterstained with DAPI (blue).



WB (Western Blot)

Western Blot analysis of mouse S100A8 of lysates of mouse leukocyte. PVDF membrane was probed with AAA14670 (2ug/ml) followed by IgG (HRP) anti-rat IgG secondary antibody. A specific band was detected for S100A8 at ~10kD (as indicated). This experiment was conducted under reducing conditions and using the buffers listed in the protocol.

ADDITIONAL INFORMATION

Related Product Information for anti-S100A8 antibody	Mouse S100A8 (also CP-10, calgranulin A and MRP8) is a 10kD member of the S100 family of calcium-binding proteins. The S100A8 protein is 89 amino acids (aa) in length and contains short, sequential modules. There is an N-terminal a-helix, followed by a calcium-binding EF-hand segment, and a C-terminal a-helix. S100A8 will noncovalently heterodimerize with S100A9. In the presence of calcium, this heterodimer will form a heterotetramer. The dimeric complex is both intracellular and extracellular. It binds heparan sulfate and is chemotactic for PMNs and macrophages. Mouse S100A8 is 80% and 57% aa identical to rat and human S100A8, respectively.
Product Categories/Family for anti-S100A8 antibody	Antibodies ; Abs to Binding Proteins

NCBI AND UNIPROT INFORMATION

NCBI GI #	47115285
NCBI GeneID	6279
UniProt Accession #	P27005 ; Q5SY70 ; Q9UC84 ; Q9UC92 ; Q9UCJ0 ; Q9UCM6 ; A8K5L3 ; D3DV37 ; P05109
NCBI Official Full Name	S100A8
NCBI Official Synonym Full Names	S100 calcium binding protein A8
NCBI Official Symbol	S100A8
NCBI Official Synonym Symbols	P8; MIF; NIF; CAGA; CFAG; CGLA; L1Ag; MRP8; CP-10; MA387; 60B8AG; S100A8
NCBI Protein Information	protein S100-A8; MRP-8; calgranulin A; calgranulin-A; cystic fibrosis antigen; calprotectin L1L subunit; urinary stone protein band A; leukocyte L1 complex light chain; migration inhibitory factor-related protein 8; S100 calcium-binding protein A8 (calgranulin A)
UniProt Protein Name	Protein S100-A8
UniProt Gene Name	S100A8
UniProt Synonym Gene Names	CAGA; CFAG; MRP8
UniProt Entry Name	S10A8_HUMAN

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.