

Rabbit S100A16 Polyclonal Antibody | anti-S100A16 antibody

S100A16 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA325008	Rabbit	Human, Mouse, Rat	ELISA, Immunocytochemistry, Immunofluorescence, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

S100A16; Polyclonal Antibody; S100A16 Antibody; 2300002L21Rik; AAG13; Aging associated gene 13 protein; Aging associated protein 13; Aging-associated gene 13 protein; AI325039; AI663996; DT1P1A7; MGC17528; Protein S100 A16; Protein S100-A16; Protein S100-F; Protein S100F; S100 calcium binding protein A16; S100 calcium-binding protein A16; S100F; S10AG_HUMAN; anti-S100A16 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	S100A16 antibody detects endogenous levels of total S100A16
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	103
Applicable Applications for anti-S100A16 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide
Subcellular Location	Nucleus > Nucleolus. Cytoplasm. Primarily nucleolar. Translocates from the nucleolus to the cytoplasm in response to an increase of intracellular calcium levels.
Tissue Specificity	Ubiquitous (PubMed:14684152). Highly expressed in esophagus, adipose tissues and colon. Expressed at lower level in lung, brain, pancreas and skeletal muscle. Expression is up-regulated in tumors of bladder, lung, thyroid gland, pancreas and ovary (PubMed:14684152). Expressed in astrocytes (PubMed:17030513).
Predicted Cross Reactivity	Pig, Bovine, Horse, Sheep, Dog
Similarity	Pig (90%), Bovine (90%), Horse (90%), Sheep (90%), Dog (90%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



WB (Western Blot)
Western blot analysis of extracts from 3T3 cells using S100A16 antibody.



IHC (Immunohistochemistry)
AAA325008 at 1/100 staining Mouse pancreas tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



IF (Immunofluorescence)
AAA325008 staining NIH-3T3 cells by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) antibody, diluted at 1/600, was used as secondary antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-S100A16 antibody	Function: Calcium-binding protein. Binds one calcium ion per monomer (PubMed:17030513). Can promote differentiation of adipocytes (in vitro) (By similarity). Overexpression in preadipocytes increases their proliferation, enhances adipogenesis and reduces insulin-stimulated glucose uptake (By similarity). Subunit Structure: Homodimer (PubMed:17030513, PubMed:21046186). Interacts with TP53 (By similarity). Similarity: S100A16 proteins, but not other S100 proteins, have only one functional Ca2+ binding site per monomer. Upon Ca2+ binding, undergoes conformational changes leading to the exposure of hydrophobic patches which could be implicated in the Ca2+-dependent nuclear export. Binds Zn2+. Ca2+ and Zn2+ do not bind to the same site. Does not bind Cu2+. Belongs to the S-100 family.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	948549834
NCBI GeneID	140576
NCBI Accession #	NP_001303936.1
NCBI GenBank Nucleotide #	NM_001317007.1
UniProt Accession #	Q96FQ6; Q5RHS6; A8K439; D3DV52
Molecular Weight	Observed: 20 kD Predicted: 12 kDa
NCBI Official Full Name	protein S100-A16
NCBI Official Synonym Full Names	S100 calcium binding protein A16
NCBI Official Symbol	S100A16
NCBI Official Synonym Symbols	AAG13; S100F; DT1P1A7
NCBI Protein Information	protein S100-A16
UniProt Protein Name	Protein S100-A16
UniProt Gene Name	S100A16

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.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/s100a16-antibody-immunocytochemistry-immunofluorescence-immunohistochemistry-western-blot-elisa/325008>