

Rabbit S100B Polyclonal Antibody | anti-S100B antibody

S100B Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA28759	Rabbit	Human, Mouse, Rat (Predicted: Rabbit)	Western Blot, Immunohistochemistry, Flow Cytometry, Functional Assay, Immunohistochemistry, ELISA

PRODUCT SYNONYMS

S100B; Polyclonal Antibody; S100B Antibody; Protein S100-B; S-100 protein beta chain; S-100 protein subunit beta; S100 calcium-binding protein B; anti-S100B antibody

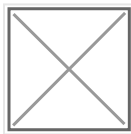
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat (Predicted: Rabbit)
Clonality	Polyclonal
Isotype	IgG
Specificity	This S100B antibody is generated from rabbits immunized with S100B recombinant protein.
Purity/Purification	Peptide Affinity Purified Rabbit Polyclonal Antibody (Pab)
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Sequence Length	92
Applicable Applications for anti-S100B antibody	WB (Western Blot), IHC (Immunohistochemistry), FCM/FACS (Flow Cytometry), IHC (Immunohistochemistry), ELISA
Application Notes	WB~~1:2000 IHC-P-Leica~~1:500 FC~~1:10~50 IHC~~1:1000
Function	Weakly binds calcium but binds zinc very tightly-distinct binding sites with different affinities exist for both ions on each monomer. Physiological concentrations of potassium ion antagonize the binding of both divalent cations, especially affecting high-affinity calcium-binding sites. Binds to and initiates the activation of STK38 by releasing autoinhibitory intramolecular interactions within the kinase. Interaction with AGER after myocardial infarction may play a role in myocyte apoptosis by activating ERK1/2 and p53/TP53 signaling. Could assist ATAD3A cytoplasmic processing, preventing aggregation and favoring mitochondrial localization. May mediate calcium-dependent regulation on many physiological processes by interacting with other proteins, such as TPR-containing proteins, and modulating their activity.
Cellular Location	Cytoplasm. Nucleus
Tissue Location	Although predominant among the water-soluble brain proteins, S100 is also found in a variety of other tissues.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 2 weeks. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.

IMAGES



IHC (Immunohistochemistry)
Immunohistochemical analysis of paraffin-embedded Human brain section using Pink 1 (AAA28759). AAA28759 was diluted at 1:1000 dilution. A undiluted biotinylated goat polyvalent antibody was used as the secondary, followed by DAB staining



FCM (Flow Cytometry)
S100B Antibody (Cat. #AAA28759) flow cytometric analysis of A375 cells (right histogram) compared to a negative control cell (left histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.



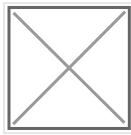
WB (Western Blot)
Western blot analysis of lysates from A431 cell line, mouse brain, rat brain tissue (from left to right), using S100B Antibody (Cat. #AAA28759). AAA28759 was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L (HRP) at 1:10000 dilution was used as the secondary antibody. Lysates at 20ug per lane.



WB (Western Blot)
All lanes : Anti-S100B Antibody at 1:2000 dilution Lane 1: Human brain lysate Lane 2: C2C12 whole cell lysate Lane 3: Rat brain lysate Lysates/proteins at 20 ug per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 11 kDa Blocking/Dilution buffer: 5% NFD/MTBST.



IHC (Immunohistochemistry)
Immunohistochemical analysis of paraffin-embedded Human breast tissue using AAA28759 performed on the Leica® BOND RXm. Tissue was fixed with formaldehyde at room temperature, antigen retrieval was by heat mediation with a EDTA buffer (pH9. 0). Samples were incubated with primary antibody(1:500) for 1 hours at room temperature. A undiluted biotinylated CRF Anti-Polyvalent HRP Polymer antibody was used as the secondary antibody.



IHC (Immunohistochemistry)
Immunohistochemical analysis of paraffin-embedded Human melanoma tissue using AAA28759 performed on the Leica® BOND RXm. Tissue was fixed with formaldehyde at room temperature, antigen retrieval was by heat mediation with a EDTA buffer (pH9. 0). Samples were incubated with primary antibody(1:500) for 1 hours at room temperature. A undiluted biotinylated CRF Anti-Polyvalent HRP Polymer antibody was used as the secondary antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-S100B antibody	S100B 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; however, this gene is located at 21q22.3. This protein may function in Neurite extension, proliferation of melanoma cells, stimulation of Ca2+ fluxes, inhibition of PKC-mediated phosphorylation, astrocytosis and axonal proliferation, and inhibition of microtubule assembly. Chromosomal rearrangements and altered expression of this gene have been implicated in several neurological, neoplastic, and other types of diseases, including Alzheimer's disease, Down's syndrome, epilepsy, amyotrophic lateral sclerosis, melanoma, and type I diabetes.
Product Categories/Family for anti-S100B antibody	Crown Antibodies; Cell Biology; Signal Transduction
References	Davila, S., et al. Genes Immun. 11(3):232-238(2010) Mori, T., et al. Glia 58(3):300-314(2010) Steiner, J., et al. Psychoneuroendocrinology 35(2):321-324(2010)

NCBI AND UNIPROT INFORMATION

NCBI GI #	5454034
NCBI GeneID	6285
NCBI Accession #	NP_006263.1
NCBI GenBank Nucleotide #	NM_006272.2
UniProt Accession #	P04271; D3DSN6
NCBI Official Full Name	protein S100-B

NCBI Official Synonym Full Names	S100 calcium binding protein B
NCBI Official Symbol	S100B
NCBI Official Synonym Symbols	NEF; S100; S100-B; S100beta
NCBI Protein Information	protein S100-B
UniProt Protein Name	Protein S100-B
UniProt Gene Name	S100B
UniProt Entry Name	S100B_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.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/s100b-antibody-western-blot-immunohistochemistry-flow-cytometry-immunohistochemistry-elisa/28759>