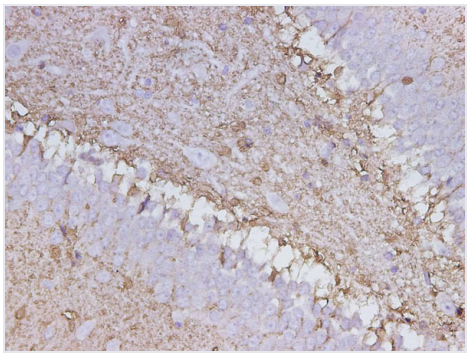
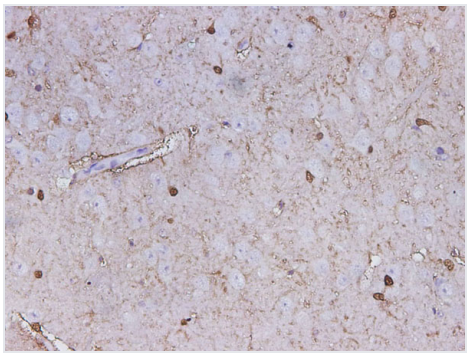
S100B Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	S100B, Polyclonal Antibody
Full Product Name	S100B Polyclonal Antibody
Product Gene Name	anti-S100B antibody
Product Synonym Names	NEF; Protein S100 B; S 100 calcium binding protein beta chain; S100 protein beta chain; S-100 protein subunit beta; S100; S100 calcium-binding protein B; S100B; S100beta
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Mouse, Rat
Form/Format	PBS with 0.02% sodium azide,1% protective protein and 50% glycerol,pH7.4
Purity/Purification	Antigen Affinity Purification
Concentration	1mg/mL (lot specific)
Preparation and Storage	Store at -20 degree C Valid for 12 months. Avoid freeze/thaw cycles.
Molecular Weight	10,728 Da
3D Structure	ModBase 3D Structure for P50114
Immunogen	Recombinant Mouse S100B protein expressed by E coli
Product Categories/Family for anti-S100B antibody	Polyclonal Antibodies; Primary Antibodies; Polyclonal Antibodies; Cell Biology; Epigenetics and Nuclear Signaling; Stem Cells
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-S100B antibody	Immunohistochemistry (IHC)
Application Notes for anti-S100B antibody	IHC: 1:75-1:150
Related Product Information for anti-S100B antibody	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; 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.
Other Notes	Small volumes of anti-S100B 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.
Searchable Terms for S100B purchase	MBS2579130 is an antibody targeting S100B. Also known as S100B Polyclonal Antibody. Reactive in Mouse, Rat. Host: Rabbit.



Immunohistochemistry (IHC) of anti-S100B antibody
Immunohistochemistry of paraffin-embedded Rat brain using S100B Polyclonal Antibody at dilution of 1:150



Immunohistochemistry (IHC) of anti-S100B antibody
Immunohistochemistry of paraffin-embedded Mouse brain using S100B Polyclonal Antibody at dilution of 1:150

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for S100B. It may not necessarily be applicable to this product.

NCBI GI #	6677839
NCBI GeneID	20203
NCBI Accession #	NP_033141.1
UniProt Primary Accession #	P50114
UniProt Related Accession #	P50114
GenBank Nucleotide #	NM_009115.3
NCBI Official Full Name	protein S100-B
NCBI Official Synonym Full Names	S100 protein, beta polypeptide, neural
NCBI Official Symbol	S100b
NCBI Official Synonym Symbols	Bpb; AI850290
UniProt Protein Name	Protein S100-B
UniProt Synonym Protein Names	S-100 protein beta chain; S-100 protein subunit beta; S100 calcium-binding protein B
Protein Family	Protein
UniProt Gene Name	S100b
UniProt Entry Name	S100B_MOUSE
NCBI Protein Information	protein S100-B; S-100 protein beta chain; S-100 protein subunit beta; S100 calcium-binding protein B

UniProt Comments for S100B	S100B: 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. Dimer of either two alpha chains, or two beta chains, or one alpha and one beta chain. The S100B dimer binds two molecules of STK38. Interacts with AGER. The S100B dimer interacts with two molecules of CAPZA1. Although predominant among the water-soluble brain proteins, S100 is also found in a variety of other tissues. Belongs to the S-101 family. Protein type: Calcium-binding Cellular Component: ruffle; extracellular space; intracellular membrane-bound organelle; cell soma; perinuclear region of cytoplasm; cytoplasm; extracellular region; nucleus Molecular Function: identical protein binding; RAGE receptor binding; protein homodimerization activity; zinc ion binding; metal ion binding; calcium ion binding; calcium-dependent protein binding; receptor binding Biological Process: regulation of long-term neuronal synaptic plasticity; cellular calcium ion homeostasis; regulation of cell shape; learning and/or memory; positive regulation of I-kappaB kinase/NF-kappaB cascade; positive regulation of apoptosis; positive regulation of cell proliferation; energy reserve metabolic process; positive regulation of synaptic transmission; memory; regulation of cytokine biosynthetic process; regulation of neuronal synaptic plasticity
Research Articles on S100B	**1.** Data suggest up-regulation of S100b/RAGE (advanced glycosylation end-product receptor) signaling plays role in inflammatory interaction between adipocytes/macrophages; adipocyte secretion of S100b is up-regulated by Tnf (tumor necrosis factor-alpha).
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