

Anti-S100B antibody



Description	Mouse monoclonal to S100B.
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Model	STJ99307
Host	Mouse
Reactivity	Rat
Applications	ELISA, WB
Immunogen	Human S100B synthetic peptide conjugated to KLH.
Gene ID	6285
Gene Symbol	S100B
Dilution range	WB 1:500-2000 ELISA 1:10000-20000
Specificity	This antibody detects endogenous levels of S100B and does not cross-react with related proteins.
Tissue Specificity	Although predominant among the water-soluble brain proteins, S100 is also found in a variety of other tissues.
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Clone ID	5G3-C11
Note	For Research Use Only (RUO).
Protein Name	Protein S100-B S-100 protein beta chain S-100 protein subunit beta S100 calcium-binding protein B
Molecular Weight	10kDa

Clonality	Monoclonal
Conjugation	Unconjugated
Isotype	IgG2b
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Concentration	1 mg/ml
Storage Instruction	Store at -20°C, and avoid repeat freeze-thaw cycles.
Database Links	HGNC:10500 OMIM:176990
Alternative Names	Protein S100-B S-100 protein beta chain S-100 protein subunit beta S100 calcium-binding protein B
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 Localization	Cytoplasm Nucleus

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