

# Anti-S100B Antibody

Mouse Monoclonal Antibody

Catalog # AP53396

## Product Information

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Application	WB
Primary Accession	<a href="#">P04271</a>
Other Accession	<a href="#">BC041935</a>
Host	Mouse
Clonality	Monoclonal
Isotype	IgG2b
Immunogen	Human S100B synthetic peptide conjugated to KLH.
Purification	Affinity purified
Calculated MW	10713

## Additional Information

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Gene ID	6285
Other Names	NEF; Protein S100 B; Protein S100-B; S 100 calcium binding protein beta chain; S 100 protein beta chain; S-100 protein beta chain; S-100 protein subunit beta; S100; S100 calcium binding protein beta (neural); S100 calcium-binding protein B; S100 protein beta chain; S100B; S100B_HUMAN; S100beta.
Dilution	WB~~1:500
Format	Purified mouse monoclonal antibody in PBS(pH 7.4) containing with 0.09% (W/V) sodium azide and 50% glycerol.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

## Protein Information

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Name	S100B {ECO:0000303 PubMed:6487634, ECO:0000312 HGNC:HGNC:10500}
Function	Small zinc- and- and calcium-binding protein that is highly expressed in astrocytes and constitutes one of the most abundant soluble proteins in brain (PubMed: <a href="#">20950652</a> , PubMed: <a href="#">6487634</a> ). Weakly binds calcium but binds zinc very tightly-distinct binding sites with different affinities exist for both ions on each monomer (PubMed: <a href="#">20950652</a> , PubMed: <a href="#">6487634</a> ). Physiological concentrations of potassium ion antagonize the binding of both divalent cations, especially affecting high-affinity calcium-binding sites (By similarity). Acts as a neurotrophic factor that promotes astrocytosis and axonal proliferation (By similarity). Involved in innervation of thermogenic adipose tissue by acting as an adipocyte-derived neurotrophic factor that promotes

sympathetic innervation of adipose tissue (By similarity). Binds to and initiates the activation of STK38 by releasing autoinhibitory intramolecular interactions within the kinase (By similarity). Interaction with AGER after myocardial infarction may play a role in myocyte apoptosis by activating ERK1/2 and p53/TP53 signaling (By similarity). Could assist ATAD3A cytoplasmic processing, preventing aggregation and favoring mitochondrial localization (PubMed:[20351179](#)). May mediate calcium-dependent regulation on many physiological processes by interacting with other proteins, such as TPR-containing proteins, and modulating their activity (PubMed:[22399290](#)).

#### Cellular Location

Cytoplasm. Nucleus. Secreted {ECO:0000250 | UniProtKB:P50114}  
Note=Secretion into the medium is promoted by interaction with isoform CLSTN3beta of CLSTN3. {ECO:0000250 | UniProtKB:P50114}

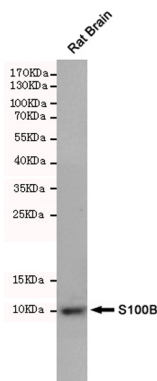
#### Tissue Location

Although predominant among the water-soluble brain proteins, S100 is also found in a variety of other tissues

## Background

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

## Images



Western blot analysis of extracts from Rat Brain cell lysates using S100B mouse mAb (1:500 diluted). Predicted band size: 10kDa. Observed band size: 10kDa.

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