

S100B Rabbit mAb

Catalog # AP76045

Product Information

Application	WB, IHC-P, IP
Primary Accession	P04271
Reactivity	Human, Rat
Host	Rabbit
Clonality	Monoclonal Antibody
Calculated MW	10713

Additional Information

Gene ID	6285
Other Names	S100B
Dilution	WB~~1/500-1/1000 IHC-P~~N/A IP~~1/20
Format	50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40%Glycerol, 0.01% sodium azide and 0.05% BSA.
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

Protein Information

Name	S100B {ECO:0000303 PubMed:6487634, ECO:0000312 HGNC:HGNC:10500}
Function	<p>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:20950652, PubMed:6487634). Weakly binds calcium but binds zinc very tightly-distinct binding sites with different affinities exist for both ions on each monomer (PubMed:20950652, PubMed:6487634). 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</p>

TPR-containing proteins, and modulating their activity (PubMed:[22399290](#)).

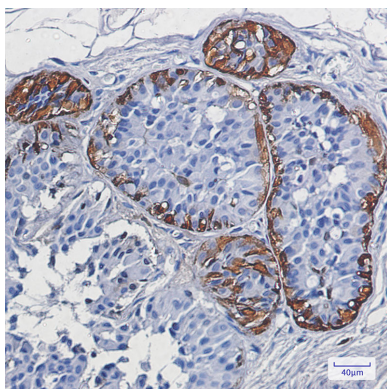
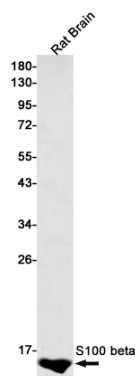
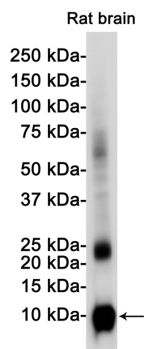
Cellular Location

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

Images



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