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S100b antibody - N-terminal region
Rabbit Polyclonal Antibody
Catalog # AI10571

Specification

S100b antibody - N-terminal region - Product Information

Application	**WB**
Primary Accession	P04631
Other Accession	NM_013191, NP_037323
Reactivity	**Human, Mouse, Rat, Goat, Horse, Bovine, Dog**
Predicted	**Human, Mouse, Rat, Chicken, Bovine, Dog**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**10kDa KDa**

S100b antibody - N-terminal region - Additional Information

Gene ID 25742

Alias Symbol	**MGC93559, S100P**

Other Names
Protein S100-B, S-100 protein beta chain, S-100 protein subunit beta, S100 calcium-binding protein B, S100b

Format
Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.

Reconstitution & Storage
Add 50 ul of distilled water. Final anti-S100b antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.

Precautions
S100b antibody - N-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

S100b antibody - N-terminal region - Protein Information

Name S100b {ECO:0000303|PubMed:19910580, ECO:0000312|RGD:3615}

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:14621986, PubMed:15823027, PubMed:18949447, PubMed:20351179). Weakly binds calcium but binds zinc very tightly-distinct binding sites with different affinities exist for both ions

on each monomer (PubMed:15823027). 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 (PubMed:19910580). Could assist ATAD3A cytoplasmic processing, preventing aggregation and favoring mitochondrial localization (By similarity). May mediate calcium- dependent regulation on many physiological processes by interacting with other proteins, such as TPR-containing proteins, and modulating their activity (By similarity).

Cellular Location
Cytoplasm {ECO:0000250|UniProtKB:P04271}. Nucleus {ECO:0000250|UniProtKB:P04271}. Secreted {ECO:0000250|UniProtKB:P50114}. Note=Secretion into the medium is promoted by interaction with isoform CLSTN3beta of CLSTN3 {ECO:0000250|UniProtKB:P50114}

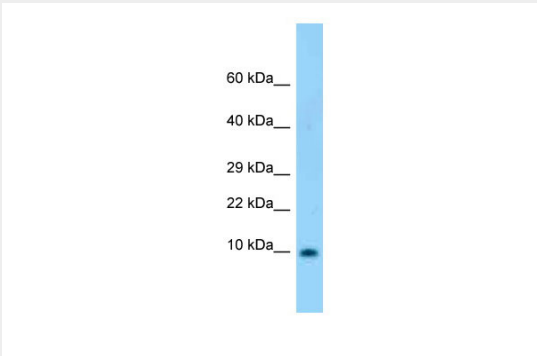
Tissue Location
Although predominant among the water-soluble brain proteins, S100 is also found in a variety of other tissues

S100b antibody - N-terminal region - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

S100b antibody - N-terminal region - Images



WB Suggested Anti-S1b Antibody
Titration: 1. µg/ml
Positive Control: Rat Brain