

S100B Antibody
Mouse Monoclonal Antibody (Mab)
Catalog # AM1942b**Specification****S100B Antibody - Product Information**

Application	WB, E
Primary Accession	P04271
Other Accession	Q6YNR6 , NP_006263.1
Reactivity	Mouse
Predicted	Rabbit
Host	Mouse
Clonality	Monoclonal
Isotype	IgM, k
Calculated MW	10713

S100B Antibody - Additional Information**Gene ID** 6285**Other Names**

Protein S100-B, S-100 protein beta chain, S-100 protein subunit beta, S100 calcium-binding protein B, S100B

Target/Specificity

This S100B monoclonal antibody is generated from mouse immunized with S100B recombinant protein.

Dilution

WB~~1:500~1000

Format

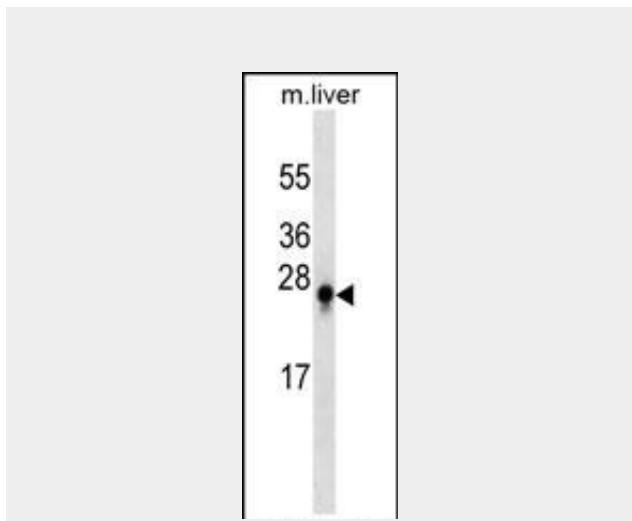
Purified monoclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Euglobin precipitation followed by dialysis against PBS.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

S100B Antibody is for research use only and not for use in diagnostic or therapeutic procedures.



S100B Antibody (Cat. #AM1942b) western blot analysis in mouse liver tissue lysates (35µg/lane). This demonstrates the S100B antibody detected the S100B protein (arrow).

S100B Antibody - Background

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. Chromosomal rearrangements and altered expression of this

S100B Antibody - Protein Information

Name S100B

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.

gene have been implicated in several neurological, neoplastic, and other types of diseases, including Alzheimer's disease, Down's syndrome, epilepsy, amyotrophic lateral sclerosis, melanoma, and type I diabetes.

S100B Antibody - References

Sahoo, N., et al. FEBS Lett. 584(18):3896-3900(2010)
Lin, J., et al. J. Biol. Chem. 285(35):27487-27498(2010)
van Dieck, J., et al. FEBS Lett. 584(15):3269-3274(2010)
Egberts, F., et al. Anticancer Res. 30(5):1799-1805(2010)
Boutsikou, T., et al. Mediators Inflamm. 2010, 790605 (2010) :

Cellular Location

Cytoplasm. Nucleus

Tissue Location

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

S100B Antibody - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

S100B Antibody - Citations

- [Immunofluorescence analysis of sensory nerve endings in the interosseous membrane of the forearm](#)