



**Category:** Monoclonal Antibodies  
**Product Name:** Mouse Monoclonal Antibody to S100B

**Catalog Number:** MAB-606020154

**Lot#:**  
**Clone#:** 9A11B9  
**Host and isotype:** Mouse IgG1  
**Size:** 0.1ml  
**MW:**  
**Aliases:** NEF; S100; S100beta  
**Entrez Gene:** 6285  
**Species reactivity:** Human

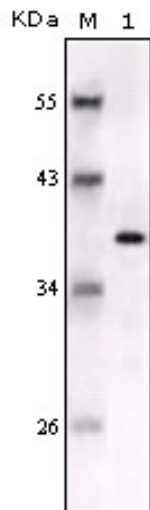


Figure 1: Western blot analysis using S100B mouse mAb against full-length S100B recombinant protein.

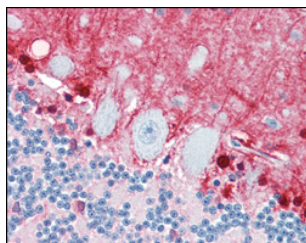


Figure 2: Immunohistochemical analysis of paraffin-embedded human brain, cerebellum using S100B mouse mAb with DAB staining

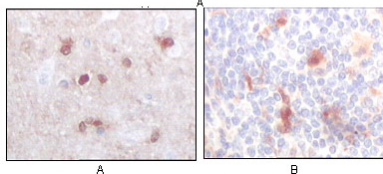
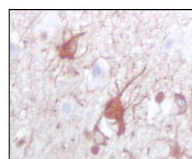


Figure 3: Immunohistochemical analysis of paraffin-embedded human brain (A) and human thymus tissues (B), showing cytoplasmic localization using S100B mouse mAb with DAB staining.

**Description** S100B (S100 calcium binding protein B) 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. S-100 proteins and parvalbumin proteins are each expressed in neural tissues. In addition, S100B are present in a variety of other tissues, and calbindin is present in intestine and kidney. Parvalbumin B is found in many tumor tissues as well as in the organ of Corti. Calbindin, S-100 proteins and parvalbumins have all been detected in leydig cells and the testis. These proteins are thought to play a role in hormone production and spermatogenesis. Chromosomal rearrangements and altered expression of this 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.

**Immunogen** Purified recombinant fragment of S100B expressed in E. Coli.

**Application** Western Blotting: 1/500 - 1/2000.

Immunohistochemistry: 1/200 - 1/1000.

ELISA: Proposed dilution 1/10000.

Not yet tested in other applications.

Determining optimal working dilutions by titration test.

**Formulation** Aseptic fluid containing 0.03% sodium azide.

**Storage** Store at 4°C, for long term storage, store at -20°C.

#### Related product References

1. Shapiro LA. Marks A. Whitaker-Azmitia PM. Brain Res. 2004, Jun 4,1010(1-2):17-21.
2. Sorci G. Riuzzi F. Arcuri C. et al. Mol Cell Biol. 2004, Jun,24(11):4880-94.
3. Zimmer DB. Chaplin J. Baldwin A. et al. Cell Mol Biol (Noisy-le-grand).2005,Sep 5,51(2):201-14.

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