

Datasheet for ABIN969391

**anti-S100B antibody**

3 Images

3 Publications

[Go to Product page](#)

## Overview

Quantity:	100 µL
Target:	S100B
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This S100B antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), ELISA

## Product Details

Immunogen:	Purified recombinant fragment of S100B expressed in E. coli.
Clone:	9A11B9
Isotype:	IgG1
Purification:	purified

## Target Details

Target:	S100B
Alternative Name:	S100B ( <a href="#">S100B Products</a> )
Background:	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

## Target Details

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 parvalbulmins 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.

Aliases: NEF, S100, S100beta

Gene ID: 6285

HGNC: 6285

Pathways: [Regulation of Muscle Cell Differentiation](#), [Positive Regulation of Immune Effector Process](#), [Toll-Like Receptors Cascades](#), [Regulation of long-term Neuronal Synaptic Plasticity](#), [S100 Proteins](#)

## Application Details

Application Notes: ELISA: 1:10000, WB: 1:500 - 1:2000, IHC: 1:200 - 1:1000

Restrictions: For Research Use only

## Handling

Format: Liquid

Buffer: Ascitic fluid containing 0.03 % sodium azide.

Preservative: Sodium azide

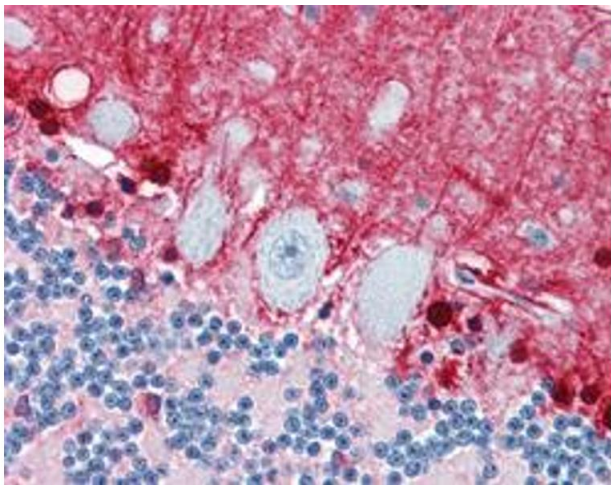
Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: 4 °C/-20 °C

Storage Comment: 4°C, -20°C for long term storage

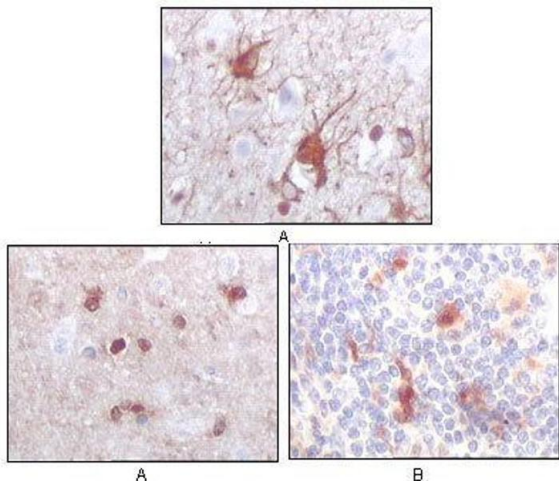
## Publications

Product cited in: Li, Xia, Huang, Chen, Su, Li, Wang, Ding, Shao: "A strategy to rapidly identify the functional targets of microRNAs by combining bioinformatics and mRNA cytoplasmic/nucleic ratios in culture cells." in: **FEBS letters**, Vol. 584, Issue 14, pp. 3198-202, (2010) ([PubMed](#)).



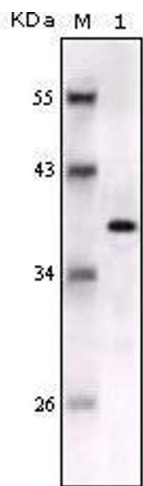
Immunohistochemistry

**Image 1.** Immunohistochemical analysis of paraffin-embedded human brain, cerebellum using S100B mouse mAb with DAB staining.



Immunohistochemistry

**Image 2.** Immunohistochemical analysis of paraffin-embedded human brain (A) and human thymus tissues (B), showing cytoplasmic localization using S100B mouse mAb with DAB staining.



Western Blotting

**Image 3.** Western blot analysis using S100B mouse mAb against full-length S100B recombinant protein.