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:	Immunohistochemistry (IHC), ELISA

Product Details

Purpose:	S100B Antibody
Immunogen:	Purified recombinant fragment of S100B expressed in E. Coli.
Clone:	9A11B9
Isotype:	IgG1
Purification:	Ascitic fluid

Target Details

Target:	S100B
Alternative Name:	S100B (S100B Products)
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

Target Details

	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 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
UniProt:	P04271
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
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:	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

Publications

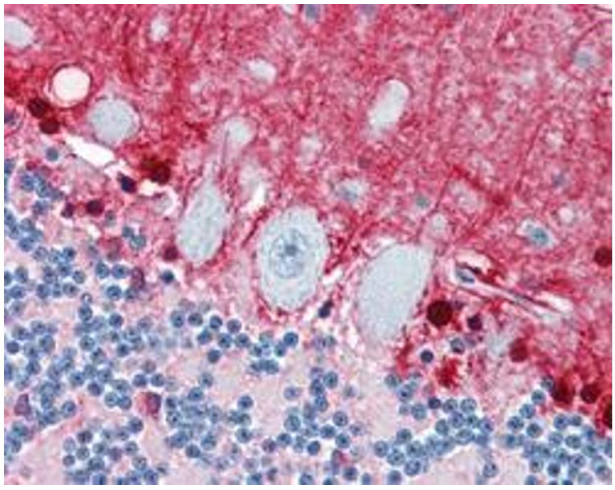
Product cited in:

Zimmer, Chaplin, Baldwin, Rast: "S100-mediated signal transduction in the nervous system and neurological diseases." in: **Cellular and molecular biology (Noisy-le-Grand, France)**, Vol. 51, Issue 2, pp. 201-14, (2005) (PubMed).

Sorci, Riuzzi, Arcuri, Giambanco, Donato: "Amphoterin stimulates myogenesis and counteracts the antimyogenic factors basic fibroblast growth factor and S100B via RAGE binding." in: **Molecular and cellular biology**, Vol. 24, Issue 11, pp. 4880-94, (2004) (PubMed).

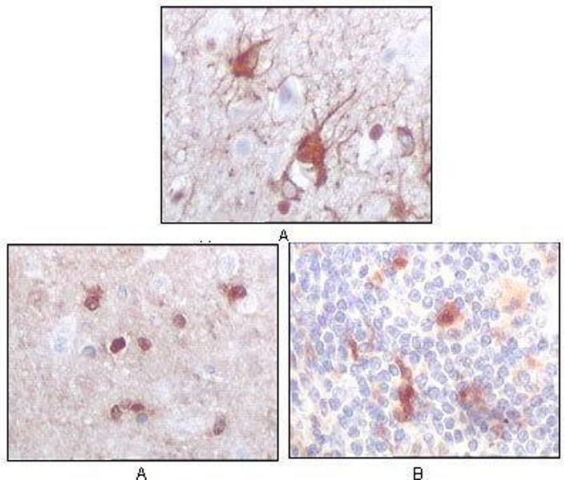
Shapiro, Marks, Whitaker-Azmitia: "Increased clusterin expression in old but not young adult S100B transgenic mice: evidence of neuropathological aging in a model of Down Syndrome." in: **Brain research**, Vol. 1010, Issue 1-2, pp. 17-21, (2004) (PubMed).

Images



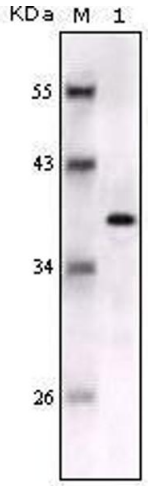
Immunohistochemistry

Image 1. Immunohistochemical analysis of paraffin-embedded human brain, cerebellun 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.