S100B polyclonal antibody

Catalog # PAB13687 Size 100 ug

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of S100B.
Immunogen	A synthetic peptide corresponding to C-terminus of human S100B.
Host	Rabbit
Theoretical MW (kDa)	10.7
Reactivity	Human, Mouse, Rat
Specificity	Identical to the related rat and mouse sequence.
Form	Lyophilized
Purification	Immunoaffinity purification
Isotype	IgG
Recommend Usage	Western Blot (1 ug/mL) Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) (1 ug/mL) The optimal working dilution should be determined by the end user.
Storage Buffer	Lyophilized from 0.9 mg NaCl, 0.2 mg Na_2HPO_4 (5 mg BSA, 0.05 mg sodium azide, 0.05 mg Thimerosal)
Storage Instruction	Store at -20°C on dry atmosphere. After reconstitution with 200 uL of deionized water and concentration will be 500 ug/mL, store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide and thimerosal: POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

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- Western Blot

Gene Info — S100B

Entrez GeneID	6285
Gene Name	S100B
Gene Alias	NEF, S100, S100beta
Gene Description	S100 calcium binding protein B
Omim ID	176990
Gene Ontology	Hyperlink
Gene Summary	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 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. [provided by RefSeq
Other Designations	OTTHUMP00000174958|S-100 calcium-binding protein, beta chain|S100 beta|S100 calcium binding protein, beta (neural)|S100 calcium-binding protein, beta|S100 calcium-binding protein, beta (neural)

Publication Reference

- Alzheimer's disease and non-demented high pathology control nonagenarians: comparing and contrasting the biochemistry of cognitively successful aging.

  Chera L Maarouf, Ian D Daugs, Tyler A Kokjohn, Douglas G Walker, Jesse M Hunter, Jane C Kruchowsky, Randy Woltjer, Jeffrey Kaye, Eduardo M Castano, Marwan N Sabbagh, Thomas G Beach, Alex E Roher

  PLoS One 2011 Nov; 6(11):e27291.

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- Increased susceptibility of S100B transgenic mice to perinatal hypoxia-ischemia.

  Wainwright MS, Craft JM, Griffin WS, Marks A, Pineda J, Padgett KR, Van Eldik LJ.

  Annals of Neurology 2004 Jul; 56(1):61.

  Application: ELISA, IHC-P, Mouse, Brains, Serum

- Astrocytosis and axonal proliferation in the hippocampus of S100b transgenic mice.

  Reeves RH, Yao J, Crowley MR, Buck S, Zhang X, Yarowsky P, Gearhart JD, Hilt DC.

  PNAS 1994 Jun; 91(12):5359.

  Application: IF, IHC, WB-Ti, Mouse, Mouse brain

Disease

- Alzheimer disease
- Bipolar Disorder
- Cognition Disorders
- Dementia
- Depressive Disorder
- Diseases in Twins
- Genetic Predisposition to Disease
- Mental Disorders
- Neuropsychological Tests
- Psychotic Disorders
- Schizophrenia

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