

Basic Information

Product Name	Anti-S100 Beta/S100B Antibody
Gene Name	S100B
Source	Rabbit
Clonality	Polyclonal
Isotype	IgG
Species Reactivity	human, mouse, rat
Tested Application	WB
Contents	500 ug/ml antibody with PBS, 0.02% NaN ₃ , 1 mg/ml BSA and 50% glycerol.
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human S100 beta, identical to the related rat and mouse sequences.
Concentration	500 ug/ml
Purification	Immunogen affinity purified.
Observed MW	11 kDa
Dilution Ratios	Western blot (WB):1:500-2000

Storage

12 months from date of receipt, -20°C as supplied.

Background Information

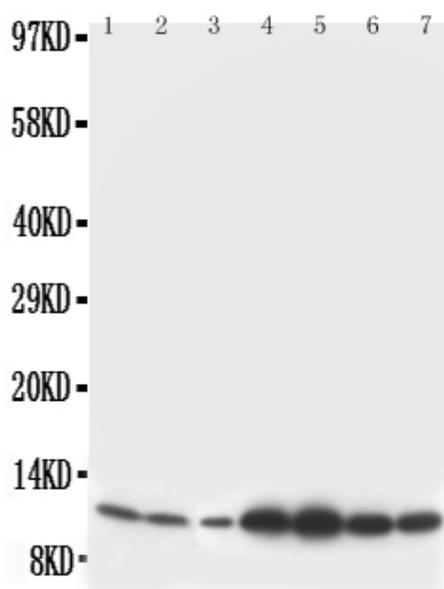
S100 calcium binding protein B or S100B is a protein of the S-100 protein family. S100 genes include at least 13 members which are located as a cluster on chromosome 1q21; however, this gene is located at 21q22.3. S100B is a glial-derived protein that is a well-established biomarker for severity of neurological injury and prognosis for recovery. S100 beta is a calcium-binding protein that is expressed at high levels in brain primarily by astrocytes. Addition of the disulfide-bonded dimeric form of S100 beta to primary neuronal and glial cultures and established cell lines induces axonal extension and alterations in astrocyte proliferation and phenotype, but evidence that S100 beta exerts the same effects in vivo has not been presented. Reeves et al.(1994) demonstrated that the same effects of the S100B protein are exerted in vivo. They found that both astrocytosis and neurite proliferation occurred in transgenic mice expressing elevated levels of S100b. They suggested that these transgenic mice represent a useful model for studies of the role of S100B in glial-neuronal interactions in normal development and function of the brain and for analyzing the significance

of elevated levels of the protein in Down syndrome and Alzheimer disease.

Reference

Anti-S100 Beta/S100B Antibody被引用在2文献中。

Selected Validation Data



Western blot analysis of S100 Beta/S100B using anti-S100 Beta/S100B antibody (PA1303). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

Lane 1: Rat Brain tissue lysates,

Lane 2: Rat Brain tissue lysates,

Lane 3: MCF-7 whole cell lysates,

Lane 4: HELA whole cell lysates,

Lane 5: SMMC whole cell lysates,

Lane 6: JURKAT whole cell lysates,

Lane 7: COLO320 whole cell lysates.

After electrophoresis, proteins were transferred to a membrane.

Then the membrane was incubated with rabbit anti-S100 Beta/S100B antigen affinity purified polyclonal antibody (PA1303) at a dilution of 1:1000 and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for S100 Beta/S100B at approximately 11 kDa. The expected band size for S100 Beta/S100B is at 11 kDa.