

Basic Information

Product Name	Anti-S100 Beta/S100B Antibody (Clone#BCB-19)	
Gene Name	S100B	
Source	Rabbit	
Clonality	Monoclonal	
Isotype	IgG	
Species Reactivity	human, mouse, rat, goat	
Tested Application	WB, IHC, ICC/IF, IP	
Contents	500 ug/ml; Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide, 0.4-0.5 mg/ml BSA and 50% glycerol.	
Immunogen	A synthesized peptide derived from human S100B	
Concentration	500 ug/ml	
Purification	Affinity-chromatography	
Observed MW	11 kDa	
Dilution Ratios	Western blot (WB):	1:500-2000
	Immunohistochemistry (IHC):	1:50-200
	Immunocytochemistry/Immunofluorescence (ICC/IF):	1:50-200
	ImmunoPrecipitation (IP):	1:20

Storage

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

Background Information

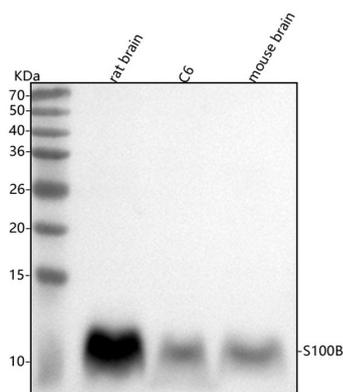
S100 calcium binding protein B or S100B is a protein of the S-100 protein family. S100 genes include at least 13 members which are located as a cluster on chromosome 1q21; however, this gene is located at 21q22.3. S100B is a glial-derived protein that is a well-established biomarker for severity of neurological 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 (Clone#BCB-19)被引用在12文献中。

Selected Validation Data



Western blot analysis of anti-S100 Beta/S100B antibody (BM4087). 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 C6 whole cell lysates,
Lane 3: mouse brain tissue lysates.

After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-S100 Beta/S100B antigen affinity purified monoclonal antibody (BM4087) 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.

Product datasheet
Anti-S100 Beta/S100B Antibody
(Clone#BCB-19)
Catalog Number: BM4087

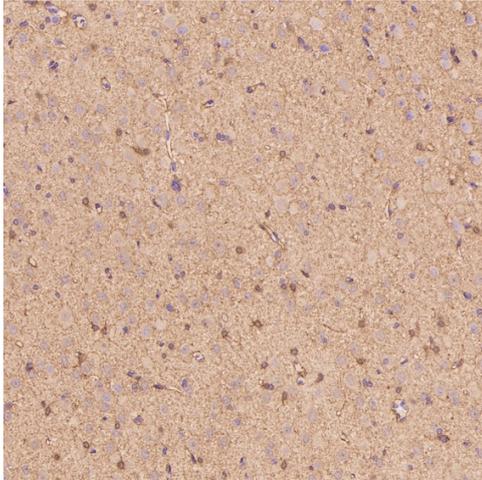
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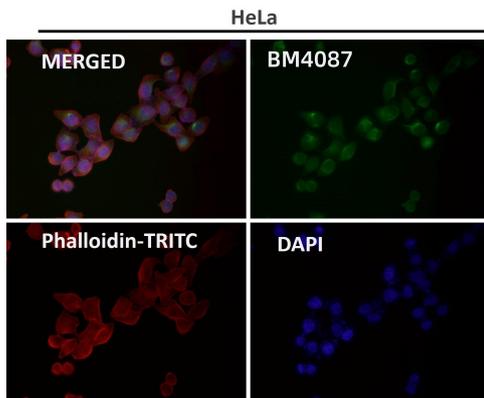
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Building C21, 3rd to 5th Floors, Optics Valley Biopharmaceutical Accelerator,
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Immunohistochemical analysis of paraffin-embedded Rat cerebral cortex, using the Antibody.



Immunofluorescent analysis using the Antibody.