BOSTER BIOLOGICAL TECHNOLOGY
3942 B Valley Ave, Pleasanton, CA 94566
888-466-3604 | support@bosterbio.com | www.bosterbio.com

Anti-S100 beta/S100B Antibody Picoband®

Catalog Number: PA1303

About S100B

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.

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Overview

Product Name	Anti-S100 beta/S100B Antibody Picoband®
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-S100 beta/S100B Antibody catalog # PA1303. Tested in WB applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Application	WB
Clonality	Polyclonal
Formulation	Each vial contains antibody formulated with stabilizing components, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg Thimerosal, 0.05mg NaN3. *This antibody is supplied in a stabilized formulation. Compatibility with conjugation reactions depends on the chemistry of the conjugation method used. For conjugation methods that are not compatible with the stabilizing components present in this formulation, a carrier-free antibody format is required.
Storage Instructions	Store at -20˚C for one year from date of receipt. After reconstitution, at 4˚C for one month. It can also be aliquotted and stored frozen at -20˚C for six months. Avoid repeated freeze-thaw cycles.
Host	Rabbit

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Uniprot ID	P04271

Technical Details

Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human S100 beta, identical to the related rat and mouse sequences.
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot.
Cross Reactivity	No cross-reactivity with other proteins
Isotype	Rabbit IgG
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	Western blot, 0.1-0.5ug/ml, Human, Rat, Mouse

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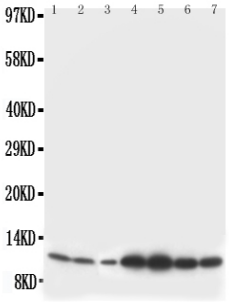
Anti-S100 beta/S100B Antibody Picoband® (PA1303) Images



Anti-S100 beta antibody, PA1303, Western blottingLane 1: Rat Brain Tissue LysateLane 2: Rat Brain Tissue LysateLane 3: MCF-7 Cell LysateLane 4: HELA Cell LysateLane 5: SMMC Cell LysateLane 6: JURKAT Cell LysateLane 7: COLO320 Cell Lysate

21 Publications Citing This Product

1. PubMed ID: 25209741, Liu S, Zhang Y, Zhao Y, Cui H, Cao C, Guo J. Cell Biochem Biophys. 2015 Jan;71(1):401-6. Doi: 10.1007/S12013-014-0212-1. Effects Of Hypothermia On S100B And Glial Fibrillary Acidic Protein In Asphyxia Rats After Cardiopulmonary Resuscitation.

2. PubMed ID: 25666351, Chen Q, Zhang Z, Liu J, He Q, Zhou Y, Shao G, Sun X, Cao X, Gong A, Jiang P. Mol Cells. 2015 Mar;38(3):221-8. Doi: 10.14348/Molcells.2015.2170. Epub 2015 Feb 4. A Fibrin Matrix Promotes The Differentiation Of Emscs Isolated From Nasal Respiratory ...

3. PubMed ID: 26171155, Tang J, Li Q, Cheng B, Huang C, Chen K. Biomed Rep. 2015 Jul;3(4):499-502. Epub 2015 May 27. Effects Of Diethylstilbestrol On The Proliferation And Tyrosinase Activity Of Cultured Human Melanocytes.

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Anti-S100 beta/S100B Antibody

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