

## Anti-S100 beta/S100B Antibody

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 astrogliosis 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.

### Overview

Product Name	Anti-S100 beta/S100B Antibody
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.
Application	WB
Clonality	Polyclonal
Formulation	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg Thimerosal, 0.05mg NaN3.
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
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.
Predicted Reactive Species	Hamster
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	<p>Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.</p> <p>If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.</p> <p>Some PubMed article(s) citing the expression level of this target are as follows:</p> <p>Boster Bio's internal QC testing used:</p> <p>Western blot, 0.1-0.5ug/ml, Human, Rat, Mouse</p>

## Anti-S100 beta/S100B Antibody (PA1303) Images



### Anti-S100 beta antibody, PA1303, Western blotting

Lane 1: Rat Brain Tissue Lysate  
Lane 2: Rat Brain Tissue Lysate  
Lane 3: MCF-7 Cell Lysate  
Lane 4: HELA Cell Lysate  
Lane 5: SMMC Cell Lysate  
Lane 6: JURKAT Cell Lysate  
Lane 7: COLO320 Cell Lysate

## 21 Publications Citing This Product

1. 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 ...
2. 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.
3. PubMed ID: 25538758, Xue B, Sun L, Li X, Wang X, Zhang Y, Mu Y, Liang L. Neural Regen Res. 2012 Oct 25;7(30):2340-6. Doi: 10.3969/J.Issn.1673-5374.2012.30.003. Ginsenoside Rb1 Relieves Glucose Fluctuation-Induced Oxidative Stress And Apoptosis In Schwann Cells.

Visit [bosterbio.com/anti-s100-beta-antibody-pa1303-boster.html](http://bosterbio.com/anti-s100-beta-antibody-pa1303-boster.html) to see all 21 publications.

## Submit a product review to Biocompare.com

Submit a review of this product to Biocompare.com to receive a \$20 Amazon.com giftcard! Your reviews help your fellow scientists make the right decisions. Thank you for your contribution.



Anti-S100 beta/S100B Antibody