

For Research Use Only

S100 Beta Monoclonal antibody



Catalog Number: 66616-1-Ig **4 Publications**

Basic Information

Catalog Number: 66616-1-Ig	GenBank Accession Number: BC001766	Purification Method: Protein A purification
Size: 150ul , Concentration: 1000 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 6285	CloneNo.: 1G10F4
Source: Mouse	Full Name: S100 calcium binding protein B	Recommended Dilutions: WB 1:1000-1:4000 IHC 1:50-1:500
Isotype: IgG1	Calculated MW: 11 kDa	
Immunogen Catalog Number: AG7440	Observed MW: 11 kDa	

Applications

Tested Applications: IHC, WB, ELISA	Positive Controls: WB : rat brain tissue, C6 cells, pig brain tissue
Cited Applications: IF, WB	IHC : human malignant melanoma tissue, human appendicitis tissue, human brain tissue, mouse brain tissue
Species Specificity: Human, mouse, pig, rat	
Cited Species: human, mouse, rat	
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	

Background Information

S100B is a member of the S100 family of proteins containing 2 EF-hand calcium-binding motifs and has been implicated in the regulation of cellular activities such as metabolism, motility and proliferation. In the nervous system, S100B is constitutively released by astrocytes into the extracellular space and at nanomolar concentrations, it can promote neurite outgrowth and protect neurons against oxidative stress. Within the central nervous system (CNS), S100B is thought to be a marker for astroglial activation, linking astrocyte dysfunction to schizophrenia. In addition to astrocytes, S100B is released from many cell types, such as, adipocytes, chondrocytes, cardiomyocytes and lymphocytes. Serum S100B represents a new biomarker for mood disorders.

Notable Publications

Author	Pubmed ID	Journal	Application
Zhigang Wang	34118692	Transl Oncol	IF
Liu Xiaoying	30690681	Neurochem Res	IF, WB
Bo Jia	33584179	Front Neurosci	IF

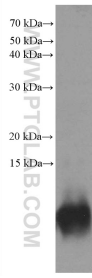
Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

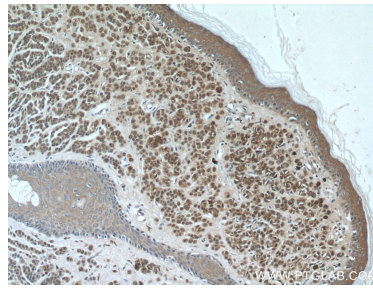
For technical support and original validation data for this product please contact:
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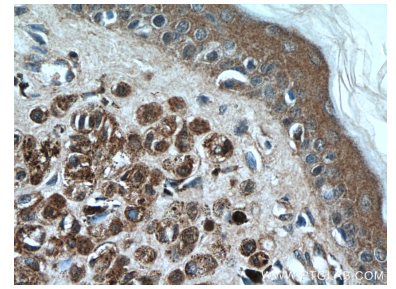
Selected Validation Data



rat brain tissue were subjected to SDS PAGE followed by western blot with 66616-1-Ig (S100B antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human malignant melanoma tissue slide using 66616-1-Ig (S100B antibody) at dilution of 1:200 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human malignant melanoma tissue slide using 66616-1-Ig (S100B antibody) at dilution of 1:200 (under 40x lens).