## For Research Use Only

# S100 Beta Polyclonal antibody

Catalog Number: 15146-1-AP

89 Publications



**Basic Information** 

**Applications** 

Catalog Number: GenBank Accession Number:

15146-1-AP BC001766
Size: GeneID (NCBI):
150ul , Concentration: 1000 μg/ml by 6285

Nanodrop; UNIPROT ID:
Source: P04271
Rabbit Full Name:

Isotype: S100 calcium binding protein B

IgG Calculated MW:
Immunogen Catalog Number: 11 kDa

AG7440 Observed MW:

Observed MV 11 kDa

Tested Applications:

WB, IF, FC, IHC, ELISA Cited Applications: WB, IF, FC, IHC Species Specificity: human, mouse, rat Cited Species:

human, rat, mouse

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0 Positive Controls:

WB: A375 cells, mouse brain tissue, human testis tissue, human brain tissue, U-251 cells, C6 cells

**Purification Method:** 

WB 1:500-1:1000 IHC 1:1000-1:6000

IF 1:50-1:500

Antigen affinity purification

Recommended Dilutions:

IHC: human malignant melanoma tissue, human gliomas tissue, mouse brain tissue, human appendicitis tissue

IF: mouse brain tissue, human astrocytes, A375 cells, mouse cerebellum tissue, human malignant melanoma tissue

## 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
Yu-Pu Liu	30261232	Neurosci Lett	IF
Liang Yan	36144631	Molecules	
Dipro Bose	32927823	Nutrients	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

\*\*\* 20ul sizes contain 0.1% BSA

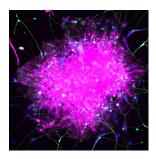
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

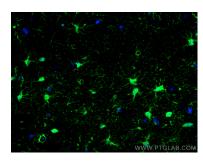
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

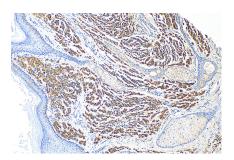
### Selected Validation Data



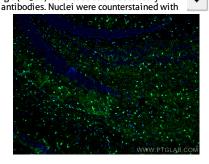
Immunofluorescence analysis of human pluripotent stem cell-derived astrocytes with \$100β (15146-1-AP) at 1/200 (Magenta) and neurons with TUJ1 (66375-1-Ig) at 1:500 (Green). The sample was fixed with 4% Paraformaldehyde and permeabilized with 0.3% Triton X-100. Alexa Fluor 488-conjugated goat anti-mouse IgG (1/500) and Alexa Fluor 594-conjugated goat anti-rabbit IgG (1/500) were used as the secondary



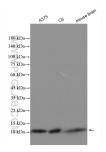
Immunofluorescent analysis of (4% PFA) fixed mouse brain tissue using S100 Beta antibody (15146-1-AP) at dilution of 1:200 and CoraLite® 488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



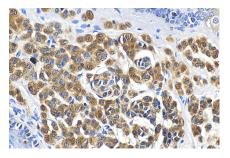
Immunohistochemical analysis of paraffinembedded human malignant melanoma tissue slide using 15146-1-AP (S100 Beta antibody) at dilution of 1:6000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



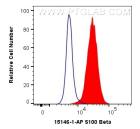
Immunofluorescent analysis of (4% PFA) fixed mouse brain tissue using S100 Beta antibody (15146-1-AP) at dilution of 1:200 and CoraLite® 488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Various lysates were subjected to SDS PAGE followed by western blot with 15146-1-AP (\$100 beta antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffinembedded human malignant melanoma tissue slide using 15146-1-AP (5100 Beta antibody) at dilution of 1:6000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



1X10^6 A375 cells were intracellularly stained with 0.5 ug Anti-Human S100 Beta (15146-1-AP) and Coralite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.5 ug Control Antibody. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).