

S100B Polyclonal Antibody

Product Details	
Size	100 µL
Species Reactivity	Human, Mouse, Rodent, Rat
Published Species	Rat, Mouse
Host/Isotype	Rabbit / IgG
Class	Polyclonal
Type	Antibody
Conjugate	Unconjugated
Immunogen	Full length human S100 beta Recombinant protein.
Form	Liquid
Concentration	0.14 mg/mL
Purification	Antigen affinity chromatography
Storage buffer	PBS, pH 7, with 20% glycerol, 1% BSA
Contains	0.025% ProClin 300
Storage conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.
RRID	AB_2736549

Applications	Tested Dilution	Publications
Western Blot (WB)	1:500-1:3,000	-
Immunohistochemistry (IHC)	-	2 Publications
Immunohistochemistry (Paraffin) (IHC (P))	1:100-1:1,000	-
Immunohistochemistry (Frozen) (IHC (F))	1:100-1:1,000	-
Immunocytochemistry (ICC/IF)	Assay-dependent	3 Publications

Product Specific Information

Positive Control: V5-human S100B-transfected 293T, A375, mouse brain, rat brain

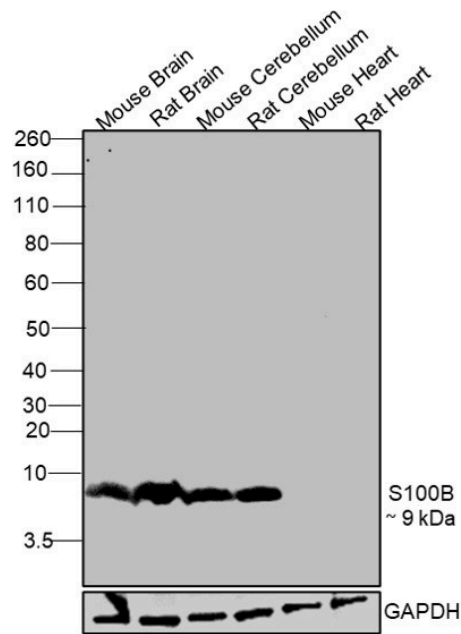
Predicted Reactivity: Rabbit (100%), Chicken (84%), Rhesus Monkey (98%), Bovine (96%)

Store product as a concentrated solution. Centrifuge briefly prior to opening the vial.

Product Images For S100B Polyclonal Antibody

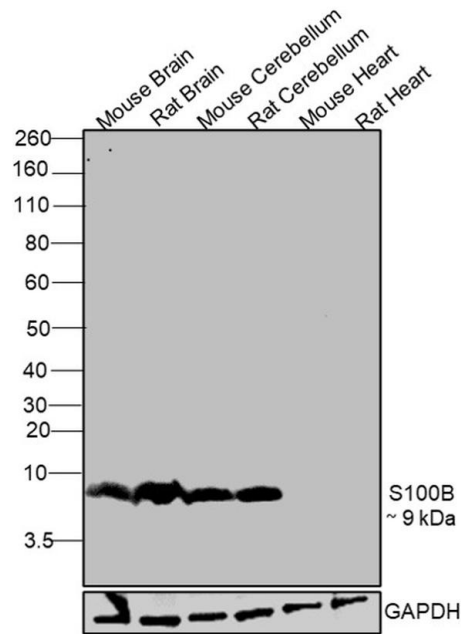
S100B Antibody (PA5-78161)

Antibody specificity was demonstrated by detection of differential basal expression of the target across tissues tested owing to their inherent genetic constitution. Relative expression of Protein S100-B was observed higher in mouse brain, rat brain, mouse cerebellum and rat cerebellum as compared to mouse heart and rat heart using Anti-S100B Polyclonal Antibody (Product # PA5-78161) in Western Blot. {RE}



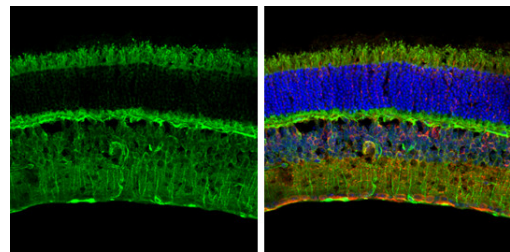
S100B Antibody (PA5-78161) in WB

Western blot was performed using Anti-S100B Polyclonal Antibody (Product # PA5-78161) and a 9 kDa band corresponding to Protein S100-B was observed across tissues tested. Whole cell extracts (30 µg lysate) of Mouse Brain (Lane 1), Rat Brain (Lane 2), Mouse Cerebellum (Lane 3), Rat Cerebellum (Lane 4), Mouse Heart (Lane 5), Rat Heart (Lane 6) were electrophoresed using NuPAGE™ 4-12% Bis-Tris Protein Gel (Product # NP0322BOX). Resolved proteins were then transferred onto a nitrocellulose membrane (Product # IB23001) by iBlot® 2 Dry Blotting System (Product # IB21001). The blot was probed with the primary antibody (1:1000 dilution) and detected by chemiluminescence with Goat anti-Rabbit IgG (Heavy Chain) Superclonal™ Recombinant Secondary Antibody, HRP (Product # A27036, 1:4000 dilution) using the iBright FL 1000 (Product # A32752). Chemiluminescent detection was performed using Novex® ECL Chemiluminescent Substrate Reagent Kit (Product # WP20005).



S100B Antibody (PA5-78161) in IHC (F)

S100B Polyclonal Antibody detects S100 beta protein expression by immunohistochemical analysis. Sample: Frozen sectioned adult mouse retina. Green: S100 beta stained by S100B Polyclonal Antibody (Product # PA5-78161) diluted at 1:250. Red: beta Tubulin 3/ TUJ1, stained by beta Tubulin 3/ TUJ1 antibody [GT11710] diluted at 1:250. Blue: Fluoroshield with DAPI .



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Immunohistochemistry (2)

<p>Frontiers in synaptic neuroscience</p> <p>Recording plasticity in neuronal activity in the rodent intrinsic cardiac nervous system using calcium imaging techniques.</p> <p>"PA5-78161 was used in Immunohistochemistry to provide evidence for a potential link between arrhythmia and plasticity in calcium dynamics that occur not only in cardiomyocytes but also in the GP neurons of the heart."</p> <p>Authors: Smith JEG,Ashton JL,Argent LP,Cheyne JE,Montgomery JM</p>	<p>Year 2023</p> <p>Species Rat</p> <p>Dilution 1:100</p>
<p>Glia</p> <p>Oligodendrocytes are susceptible to Zika virus infection in a mouse model of perinatal exposure: Implications for CNS complications.</p> <p>"PA5-78161 was used in Immunohistochemistry to demonstrate that a clinically relevant ZIKV isolate can directly impact oligodendrocytes."</p> <p>Authors: Schultz V,Barrie JA,Donald CL,Crawford CL,Mullin M,Anderson TJ,Solomon T,Barnett SC,Linnington C,Kohl A,Willison HJ,Edgar JM</p>	<p>Year 2021</p> <p>Species Mouse</p> <p>Dilution 1:400</p>

Immunocytochemistry (3)

<p>The Journal of pathology</p> <p>Novel patient-derived xenograft and cell line models for therapeutic screening in NF2-associated schwannoma.</p> <p>"Published figure using S100B polyclonal antibody (Product # PA5-78161) in Immunocytochemistry"</p> <p>Authors: Zhao F,Chen Y,Li SW,Zhang J,Zhang S,Zhao XB,Yang ZJ,Wang B,He QY,Wang LM,Xu L,Liu PN</p>	<p>Year 2022</p>
<p>International journal of molecular sciences</p> <p>Astrocytes Exhibit a Protective Role in Neuronal Firing Patterns under Chemically Induced Seizures in Neuron-Astrocyte Co-Cultures.</p> <p>"PA5-78161 was used in Immunocytochemistry-immunofluorescence to assess the modulatory roles of astrocytes during epileptic-like conditions and in compensating drug-elicited hyperactivity."</p> <p>Authors: Ahtiainen A,Genocchi B,Tanskanen JMA,Barros MT,Hyttinen JAK,Lenk K</p>	<p>Year 2021</p> <p>Species Rat</p> <p>Dilution 1:500</p>

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