

## S100B

Cat.No. 287 003; Polyclonal rabbit antibody, 50 µg specific antibody (lyophilized)

### Data Sheet

Reconstitution/ Storage	50 µg specific antibody, lyophilized. Affinity purified with the immunogen. Rabbit serum albumin was added for stabilization. For reconstitution add 50 µl H <sub>2</sub> O to get a 1mg/ml solution in PBS. Then aliquot and store at -20°C until use.
Applications	<b>WB:</b> not tested yet <b>IP:</b> not tested yet <b>ICC:</b> 1 : 500 up to 1 : 1000 <b>IHC:</b> 1 : 1000 up to 1 : 2000 <b>IHC-P/FFPE:</b> 1 : 200
Immunogen	Recombinant protein corresponding to AA 1 to 92 from rat S100B (UniProt Id: P04631)
Reactivity	Reacts with: rat (P04631), mouse (P50114). Other species not tested yet.
Specificity	Specific for S100B

**TO BE USED IN VITRO / FOR RESEARCH ONLY**  
**NOT TOXIC, NOT HAZARDOUS, NOT INFECTIOUS, NOT CONTAGIOUS**

The family of S100 proteins comprises more than 20 members. These proteins are EF-hand Ca<sup>2+</sup>-binding proteins, and are widely distributed in mammalian tissue. Since these proteins are soluble in 100 % saturated ammonium-sulfate solution they have been named S100. **S100B** is a frequently used marker protein for mature astrocytes whereas GFAP is also expressed in germinal zone cells that maintained their immature developmental stage.

### Selected References SYSY Antibodies

Re-evaluation of neuronal P2X7 expression using novel mouse models and a P2X7-specific nanobody. Kaczmarek-Hajek K, Zhang J, Kopp R, Grosche A, Rissiek B, Saul A, Bruzzone S, Engel T, Jooss T, Krautloher A, Schuster S, et al. *eLife* (2018) 7: . **IHC; tested species: mouse**

Probing nano-organization of astroglia with multi-color super-resolution microscopy. Heller JP, Michaluk P, Sugao K, Rusakov DA *Journal of neuroscience research* (2017) 95(11): 2159-2171. **ICC; tested species: rat**

A Method to Visualize the Nanoscopic Morphology of Astrocytes In Vitro and In Situ. Heller JP, Rusakov DA *Methods in molecular biology* (Clifton, N.J.) (2019) 1938: 69-84. **ICC; tested species: rat**

### Selected General References

S100B-immunopositive astrocytes and oligodendrocytes in the hippocampus are differentially afflicted in unipolar and bipolar depression: a postmortem study.

Gos T, Schroeter ML, Lessel W, Bernstein HG, Dobrowolny H, Schiltz K, Bogerts B, Steiner J *Journal of psychiatric research* (2013) 47(11): 1694-9.

S100B and NSE as useful postmortem biochemical markers of traumatic brain injury in autopsy cases. Ondruschka B, Pohlers D, Sommer G, Schober K, Teupser D, Franke H, Dressler J *Journal of neurotrauma* (2013) 30(22): 1862-71.

S100B expression defines a state in which GFAP-expressing cells lose their neural stem cell potential and acquire a more mature developmental stage.

Raponi E, Agenes F, Delphin C, Assard N, Baudier J, Legraverend C, Deloulme JC *Glia* (2007) 55(2): 165-77.

Inhibiting S100B restores p53 levels in primary malignant melanoma cancer cells. Lin J, Yang Q, Yan Z, Markowitz J, Wilder PT, Carrier F, Weber DJ *The Journal of biological chemistry* (2004) 279(32): 34071-7.