**bsm-10832M** **[ Primary Antibody ]**

# S100B Mouse mAb

www.bioss.com.cn
sales@bioss.com.cn
techsupport@bioss.com.cn
400-901-9800

## DATASHEET

**Host:** Mouse
**Isotype:** IgG
**Clonality:** Monoclonal
**CloneNo.:** 1C6
**GeneID:** 6285
**SWISS:** P04271
**Target:** S100B
**Immunogen:** Recombinant human S100B protein: 2-92/92aa (N-6x His-Tag).
**Purification:** affinity purified by Protein A
**Concentration:** 1mg/ml
**Storage:** Size : 50ul/100ul/200ul
0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Size : 200ug (PBS only)
0.01M PBS (pH7.4).
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.
**Background:** S100 beta is a member of the S100 family of proteins containing 2 EF-hand calcium binding motifs. S100 proteins are localized in the cytoplasm and/or nucleus of a wide range of cells, and involved in the regulation of a number of cellular processes such as cell cycle progression and differentiation. S100 genes include at least 13 members which are located as a cluster on chromosome 1q21; however, this gene is located at 21q22.3. This protein may function in neurite extension, proliferation of melanoma cells, stimulation of Ca2+ fluxes, inhibition of PKC mediated phosphorylation, astrocytosis and axonal proliferation, and inhibition of microtubule assembly. Chromosomal rearrangements and altered expression of this gene have been implicated in several neurological, neoplastic, and other types of diseases, including Alzheimer's disease, Down's syndrome, epilepsy, amyotrophic lateral sclerosis, melanoma, and type I diabetes.

**Applications:** **WB** (1:500-2000)
**IHC-P** (1:100-500)
**IHC-F** (1:100-500)
**IF** (1:100-500)
**Flow-Cyt** (1:50-100)

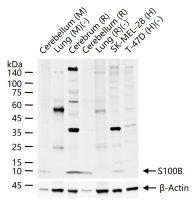
**Reactivity:** Human, Mouse, Rat

**Predicted MW.:** 10 kDa

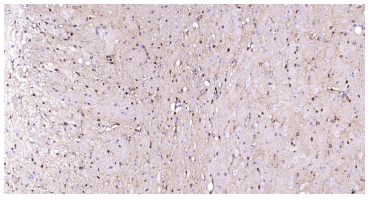
**Observed MW.:** 10 kDa

**Subcellular Location:** Cytoplasm ,Nucleus

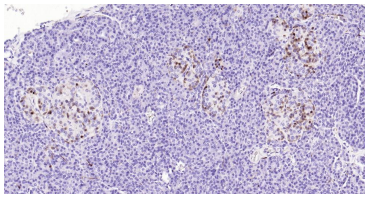
## VALIDATION IMAGES



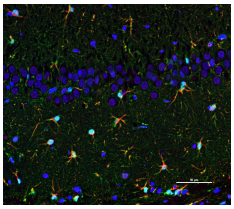

25 ug total protein per lane of various lysates (see on figure) probed with S100B monoclonal antibody, unconjugated (bsm-10832M) at 1:500 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at r.t. for 60 min.



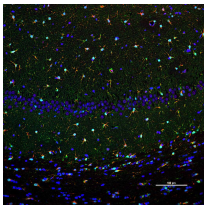
Paraformaldehyde-fixed, paraffin embedded Mouse Cerebrum; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with S100B Monoclonal Antibody, Unconjugated(bsm-10832M) at 1:200 overnight at 4°C, followed by conjugation to the SP Kit (Mouse, sp-0024) and DAB (C-0010) staining.



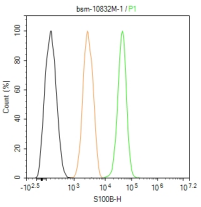
Paraformaldehyde-fixed, paraffin embedded Human Pancreas; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with S100B Monoclonal Antibody, Unconjugated(bsm-10832M) at 1:200 overnight at 4°C, followed by conjugation to the SP Kit (Mouse, sp-0024) and DAB (C-0010) staining.



Paraformaldehyde-fixed, paraffin embedded Rat



Paraformaldehyde-fixed, paraffin embedded Rat




The A375 (H) cells were fixed with 4% PFA (10

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Cerebrum; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min. The first round ,antibody incubation with S100B Monoclonal Antibody, Unconjugated (bsm-10832M) at 1:200 overnight at 4°C. Followed by conjugated Goat Anti-Mouse IgG antibody (green, bs-0296G-BF488). The second round , antibody incubation with GFAP Monoclonal Antibody, Unconjugated (bsm-42001R) at 1:200 overnight at 4°C. Followed by conjugated Goat Anti-Rabbit IgG antibody (red, bs-0295G-BF594). DAPI (blue, C02-04002) was used to stain the cell nuclei.

Cerebrum; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min. The first round ,antibody incubation with S100B Monoclonal Antibody, Unconjugated (bsm-10832M) at 1:200 overnight at 4°C. Followed by conjugated Goat Anti-Mouse IgG antibody (green, bs-0296G-BF488). The second round , antibody incubation with GFAP Monoclonal Antibody, Unconjugated (bsm-42001R) at 1:200 overnight at 4°C. Followed by conjugated Goat Anti-Rabbit IgG antibody (red, bs-0295G-BF594). DAPI (blue, C02-04002) was used to stain the cell nuclei.

min at r.t.) and then permeabilized with 90% ice-cold methanol for 20 min at -20°C,the cells then were incubated in 5%BSA to block non-specific protein-protein interactions (30 min at r.t.), followed by secondary antibody incubation for 40 min at room temperature. Primary Antibody (green):Mouse Anti-S100B antibody (bsm-10832M,1:100); Isotype Control (orange): Mouse IgG (bs-0296P). Blank control (black): PBS. Acquisition of 20,000 events was performed.

## SELECTED CITATIONS


- **[IF=14.9]** Ma Pingchuan. et al. Promotion effect of TGF-β-Zfp423-ApoD pathway on lip sensory recovery after nerve sacrifice caused by nerve collateral compensation. INT J ORAL SCI. 2023 Jun;15(1):1-14 IF ;Rat. 37286538
- **[IF=7.046]** MinChao Zhao. et al. miR-145a-5p/Plexin-A2 promotes the migration of OECs and transplantation of miR-145a-5p engineered OECs promotes the functional recovery in rats with SCI. NEUROBIOL DIS. 2023 Apr;:106129 IF ;Rat. 37068642
- **[IF=5.9]** Yao Liu. et al. Low-intensity pulsed ultrasound ameliorates partial infraorbital nerve ligation-induced trigeminal neuropathic pain through inhibiting Schwann cell Pannexin 1 channel. FRONT IMMUNOL. 2026 Jan;16: IF ;Mouse. 41562060
- **[IF=5.135]** Wei Lu. et al. Effects of targeted muscle reinnervation on spinal cord motor neurons in rats following tibial nerve transection. Neural Regen Res. 2022 Jan;17(8):1827 IHC ;Rat. 35017445
- **[IF=2.8]** Xu Yue. et al. Tuina promotes nerve myelin regeneration in SNI rats through Piezo1/YAP/TAZ pathway. J ORTHOP SURG RES. 2025 Dec;20(1):1-12 IF ;Human. 40350445


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