**bs-1248R** **[Primary Antibody]**

# S100B Rabbit pAb

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## DATASHEET

**Host:** Rabbit
**Isotype:** IgG
**Clonality:** Polyclonal
**GeneID:** 6285
**Target:** S100B
**Immunogen:** KLH conjugated synthetic peptide derived from human S100B: 2-50/92.
**Purification:** affinity purified by Protein A
**Concentration:** 1mg/ml
**Storage:** 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
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.

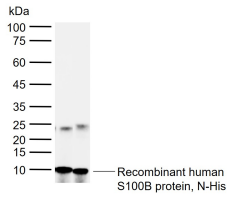
**Applications:** **WB** (1:500-2000)
**IHC-P** (1:100-500)
**IHC-F** (1:100-500)
**IF** (1:100-500)

**Reactivity:** Human

**Predicted MW:** 10 kDa

**Subcellular Location:** Cytoplasm ,Nucleus

## VALIDATION IMAGES




Sample: Lane 1、2: Recombinant human S100B protein, N-His Primary: Anti- S100B (bs-1248R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 10 kDa Observed band size: 10 kDa

## SELECTED CITATIONS


- **[IF=8.025]** Kai-Chiang Yang. et al. Bioinspired collagen-gelatin-hyaluronic acid-chondroitin sulfate tetra-copolymer scaffold biomimicking native cartilage extracellular matrix facilitates chondrogenesis of human synovium-derived stem cells. INT J BIOL MACROMOL. 2023 Apr;:124400 IHC ;Mouse. 37044324
- **[IF=5.5]** Yao Wang. et al. Acetyl-11-keto-beta-boswellic acid modulates macrophage polarization and Schwann cell migration to accelerate spinal cord injury repair in rats. CNS NEUROSCI THER. 2024 Mar;30(3):e14642 WB ;Rat. 38430464
- **[IF=4.959]** Yang KC et al. Effects of scaffold geometry on chondrogenic differentiation of adipose-derived stem cells. Materials Science and Engineering: C, 110733. IHC ;Rabbit. doi:10.1016/j.msec.2020.110733
- **[IF=3.857]** Chen-Chie Wang. et al. Infrapatellar Fat Pads–Derived Stem Cell Is a Favorable Cell Source for Articular

Cartilage Tissue Engineering: An In Vitro and Ex Vivo Study Based on 3D Organized Self-Assembled Biomimetic Scaffold:. Cartilage. 0;(): IHC ;Rabbit. 33435725