

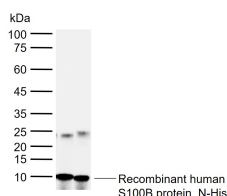
bs-41191R**[Primary Antibody]****S100B Rabbit pAb****Bioss**
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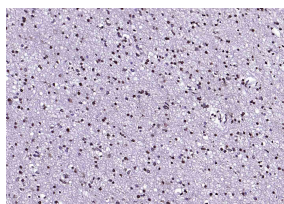
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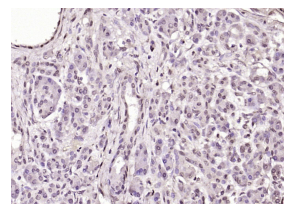
400-901-9800

— DATASHEET —**Host:** Rabbit**Isotype:** IgG**Clonality:** Polyclonal**GeneID:** 6285**SWISS:** P04271**Target:** S100B**Immunogen:** Recombinant human S100B protein: full length.**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-41191R) at 1/1000 dilution
 Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
 Predicted band size: 10 kDa
 Observed band size: 10 kDa



Paraformaldehyde-fixed, paraffin embedded (human brain glioma);
 Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min;
 Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes;
 Blocking buffer (normal goat serum) at 37°C for 30min;
 Antibody incubation with (S100B) Polyclonal Antibody, Unconjugated (bs-41191R) at 1:200 overnight at 4°C,
 followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (human pancreatic cancer);
 Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min;
 Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes;
 Blocking buffer (normal goat serum) at 37°C for 30min;
 Antibody incubation with (S100B) Polyclonal Antibody, Unconjugated (bs-41191R) at 1:400 overnight at 4°C,
 followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.