



## S100 $\beta$ Polyclonal Antibody

E20-53476

**Catalog Number:**E20-53476

**Product name:**S100 Polyclonal Antibody

**Amount:**100ul

**Applications:**IHC-p,wb

**Reactivity:**Human,Rat,Mouse

**Gene Name:**S100B

**Protein Name:**Protein S100-B (S-100 protein beta chain) (S-100 protein subunit beta) (S100 calcium-binding protein B)

**Human Gene Id:**6285

**Human Swiss Prot No:**P04271

**Mouse Swiss Prot No:**P50114

**Rat Swiss Prot No:**P04631

**Immunogen:**Recombinant Protein of S100  $\beta$

**Specificity:**The antibody detects endogenous S100  $\beta$  protein

**Formulation:**Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

**Source:**Rabbit

**Dilution:**Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. ELISA: 1/40000. Not yet tested in other applications.

**Purification:**The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.

**Concentration:**1 mg/ml

**Storage Stability:**-20° C/1 year

**Other Names:**Protein S100-B (S-100 protein beta chain) (S-100 protein subunit beta) (S100 calcium-binding protein B)

**Observed Band (KD):**11

**Background:**S100 calcium binding protein B(S100B) Homo sapiens The protein encoded by this gene is

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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  $\text{Ca}^{2+}$  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.

**Function:**function:Weakly binds calcium but binds zinc very tightly-distinct binding sites with different affinities exist for both ions on each monomer. Physiological concentrations of potassium ion antagonize the binding of both divalent cations, especially affecting high-affinity calcium-binding sites. Binds to and initiates the activation of STK38 by releasing autoinhibitory intramolecular interactions within the kinase.,miscellaneous:In addition to metal-ion binding, this protein is involved with the regulation of protein phosphorylation in brain tissue.,similarity:Belongs to the S-101 family.,similarity:Contains 2

**Subcellular Location:**ruffle,extracellular region,extracellular space,nucleus,cytoplasm,neuronal cell body,intracellular membrane-bounded organelle,perinuclear region of cytoplasm.

**Expression:**Skin.

