

## S100 Beta protein

<b>Catalog No :</b>	YD0089
<b>Reactivity :</b>	Human
<b>Applications :</b>	WB;SDS-PAGE
<b>Gene Name :</b>	S100 $\beta$
<b>Protein Name :</b>	S100 Beta protein
<b>Sequence :</b>	Amino acid: full length, with his-MBP tag.
<b>Human Gene Id :</b>	6285
<b>Human Swiss Prot No :</b>	P04271
<b>Mouse Swiss Prot No :</b>	P50114
<b>Formulation :</b>	Liquid in PBS
<b>Concentration :</b>	SDS-PAGE >90%
<b>Storage Stability :</b>	-20 °C/6 month,-80 °C for long storage
<b>Background :</b>	<p>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 EF-hand domains.,subunit:Dimer of either two alpha chains, or two beta chains, or one alpha and one beta chain. The S100B dimer binds two molecules of STK38 (By similarity). The S100B dimer interacts with two molecules of CAPZA1.,tissue specificity:Although predominant among the water-soluble brain proteins, S100 is also found in a variety of other tissues.,</p>
<b>Function :</b>	cell morphogenesis, cell morphogenesis involved in

differentiation, axonogenesis, behavior, learning or memory, cell proliferation, cell projection organization, neuron differentiation, neuron projection development, cellular component morphogenesis, cell part morphogenesis, neuron development, cell morphogenesis involved in neuron differentiation, neuron projection morphogenesis, cell projection morphogenesis, neurological system process, cognition,

**Subcellular Location :**

Cytoplasm . Nucleus .

**Expression :**

Although predominant among the water-soluble brain proteins, S100 is also found in a variety of other tissues.

**Sort :**

14672

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