

## S100 protein

<b>Catalog No :</b>	YD0088
<b>Reactivity :</b>	Human
<b>Applications :</b>	WB;SDS-PAGE
<b>Gene Name :</b>	S100A1
<b>Protein Name :</b>	S100 protein
<b>Sequence :</b>	Amino acid: full length, with his-MBP tag.
<b>Human Gene Id :</b>	6271
<b>Human Swiss Prot No :</b>	P23297
<b>Mouse Swiss Prot No :</b>	P56565
<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>	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.,similarity:Belongs to the S-100 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.,tissue specificity:Highly prevalent in heart. Also found in lesser quantities in skeletal muscle and brain.,
<b>Function :</b>	negative regulation of transcription from RNA polymerase II promoter, regulation of transcription, DNA-dependent,regulation of transcription from RNA polymerase II promoter, intracellular signaling cascade, regulation of heart contraction, negative regulation of biosynthetic process, negative regulation of macromolecule biosynthetic process,negative regulation of macromolecule metabolic process, negative regulation of gene expression, negative regulation of

transcription, negative regulation of cellular biosynthetic process, regulation of system process, regulation of transcription, negative regulation of transcription, DNA-dependent, negative regulation of nucleobase, nucleoside, nucleotide and nucleic acid metabolic process, negative regulation of nitrogen compound metabolic process, regulation of RNA metabolic process, negative regulation of RNA metabolic process,

**Subcellular Location :**

Cytoplasm . Sarcoplasmic reticulum . Mitochondrion .

**Expression :**

Highly prevalent in heart (PubMed:12804600, PubMed:1384693). Also found in lesser quantities in skeletal muscle and brain (PubMed:1384693).

## Products Images

