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Datasheet for ABIN7320084 S100B Protein (Fc Tag)

Image



Overview

Quantity:	100 µg
Target:	S100B
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This S100B protein is labelled with Fc Tag.

Product Details

Purpose:	Recombinant Mouse S100B Protein (Fc Tag)(Active)
Sequence:	Ser2-Glu92
Characteristics:	A DNA sequence encoding the mouse S100B (P50114) (Ser2-Glu92) was expressed with the fused Fc region of human IgG1 at the N-terminus.
Purity:	> 80 % as determined by SDS-PAGE
Endotoxin Level:	< 1.0 EU per μ g of the protein as determined by the LAL method.
Biological Activity Comment:	1. Measured by its binding ability in a functional ELISA.2. Immobilized recombinant mouse S100B-Fc at 10 μ g/ml (100 μ l/well) can bind biotinylated recombinant human AGER with a linear range of 0.03-0.5 ug/ml.

Target Details

Target:

S100B

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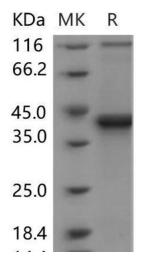
Target Details		
Alternative Name:	S100B (S100B Products)	
Background:	Background: S100B is a member of the S100 family of proteins containing two EF-hand-type calcium-binding motifs. S100B exerts both intracellular and extracellular functions. Intracellular S100B acts as a stimulator of cell proliferation and migration and an inhibitor of apoptosis and differentiation, which might have important implications during brain, cartilage and skeletal muscle development and repair, activation of astrocytes in the course of brain damage and neurodegenerative processes, and of cardiomyocyte remodeling after infarction, as well as in melanomagenesis and gliomagenesis. As an extracellular factor, S100B engages RAGE (receptor for advanced glycation end products) in a variety of cell types with different outcomes (i.e. beneficial or detrimental, pro-proliferative or pro-differentiative) depending on the concentration attained by the protein, the cell type and the microenvironment. This calcium binding astrocyte-specific cytokine, presents a marker of astrocytic activation and reflects CNS injury. The excellent sensitivity of S100B has enabled it to confirm the existence of subtle brain injury in patients with mild head trauma, strokes, and after successful resuscitation from cardiopulmonary arrest. Recent findings provide evidence, that S100B may decrease neuronal injury and/or contribute to repair following traumatic brain injury (TBI). Hence, S100B, far from being a negative determinant of outcome, as suggested previously in the human TBI and ischemia literature, is of potential therapeutic value that could improve outcome in patients who sustain various forms of acute brain damage. Synonym: Protein S100-B, S-100 protein beta chain, S-100 protein subunit beta, S100 calcium-binding protein B, S100b, S100 beta, S100 calcium binding protein B	
UniProt: Pathways:	P50114 Regulation of Muscle Cell Differentiation, Positive Regulation of Immune Effector Process, Toll- Like Receptors Cascades, Regulation of long-term Neuronal Synaptic Plasticity, S100 Proteins	
Application Details		
Restrictions:	For Research Use only	
Handling		
Format:	Lyophilized	
Reconstitution:	Please refer to the printed manual for detailed information.	
Buffer:	Lyophilized from sterile PBS, pH 7.4	

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Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C.
	Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted
	samples are stable at < -20°C for 3 months.

Images



Western Blotting

Image 1.

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