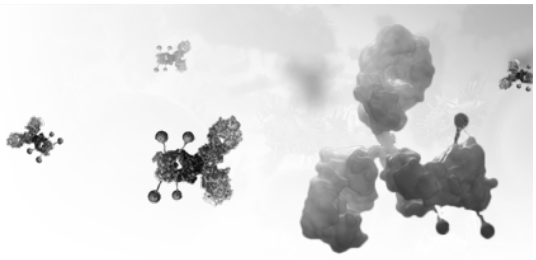

S100B blocking peptide (DAG-P1955)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description	The protein encoded by this gene 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 Alzheimers disease, Downs syndrome, epilepsy, amyotrophic lateral sclerosis, melanoma, and type I diabetes. [provided by RefSeq, Jul 2008]
Specificity	Although predominant among the water-soluble brain proteins, S100 is also found in a variety of other tissues.
Conjugate	Unconjugated
Applications	BL
Sequence Similarities	Belongs to the S-101 family.Contains 2 EF-hand domains.
Format	Liquid
Buffer	Preservative: None Constituents: PBS, pH 7.4
Preservative	None
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles. Preservative: None Constituents: PBS, pH 7.4

GENE INFORMATION

45-1 Ramsey Road, Shirley, NY 11967, USA
Email: info@creative-diagnostics.com
Tel: 1-631-624-4882 Fax: 1-631-938-8221

Gene Name	S100B S100 calcium binding protein B [Homo sapiens (human)]
Official Symbol	S100B
Synonyms	S100B; S100 calcium binding protein B; NEF; S100; S100-B; S100beta; protein S100-B; S-100 protein subunit beta; S-100 calcium-binding protein, beta chain; S100 calcium-binding protein, beta (neural);
Entrez Gene ID	6285
mRNA Refseq	NM_006272.2
Protein Refseq	NP_006263.1
UniProt ID	P04271
Chromosome Location	21q22.3
Pathway	Activated TLR4 signalling, organism-specific biosystem; Advanced glycosylation endproduct receptor signaling, organism-specific biosystem; Cytosolic sensors of pathogen-associated DNA, organism-specific biosystem; DEx/H-box helicases activate type I IFN and inflammatory cytokines production, organism-specific biosystem; Immune System, organism-specific biosystem; Innate Immune System, organism-specific biosystem; MyD88 cascade initiated on plasma membrane, organism-specific biosystem; MyD88 depe
Function	RAGE receptor binding; S100 protein binding; calcium ion binding; calcium-dependent protein binding; identical protein binding; protein binding; protein homodimerization activity; protein homodimerization activity; tau protein binding; zinc ion binding;

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