

Mouse S100 calcium binding protein B (S-100B) ELISA Kit



Catalog No: #EK7468

Orders: order@signalwayantibody.com

Package Size: #EK7468-1 48T #EK7468-2 96T

Support: tech@signalwayantibody.com

Description

Product Name	Mouse S100 calcium binding protein B (S-100B) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Mouse (Mus musculus)
Other Names	NEF; S100; S100beta; OTTHUMP00000174958 S-100 calcium-binding protein; beta chain S100 beta S100 calcium binding protein; beta (neural) S100 calcium-binding protein; beta S100 calcium-binding protei
Accession No.	P50114
Uniprot	P50114
GeneID	20203;
Storage	The stability of ELISA kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition. The loss rate was determined by accelerated thermal degradation test. Keep the kit at 37C for 4 and 7 days, and compare O.D.values of the kit kept at 37C with that of at recommended temperature. (referring from China Biological Products Standard, which was calculated by the Arrhenius equation. For ELISA kit, 4 days storage at 37C can be considered as 6 months at 2 - 8C, which means 7 days at 37C equaling 12 months at 2 - 8C).

Application Details

Detect Range:31.25-2000 pg/mL

Sensitivity:12.5 pg/mL

Sample Type:Serum, Plasma, Other biological fluids

Sample Volume: 1-200 µL

Assay Time:1-4.5h

Detection wavelength:450 nm

Product Description

Detection Method:SandwichTest principle:This assay employs a two-site sandwich ELISA to quantitate S-100B in samples. An antibody specific for S-100B has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyS-100B present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for S-100B is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of S-100B bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**S100 proteins are localized in the cytoplasm and 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. S100B is glial-specific and is expressed primarily by astrocytes, but not all astrocytes express S100B. It has been shown that S100B is only expressed by a subtype of mature astrocytes that ensheath blood vessels and by NG2-expressing cells. 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. In the developing CNS it acts as a neurotrophic factor and neuronal survival protein.

Note: This product is for in vitro research use only