

Human S100 Calcium Binding Protein B (S100B) ELISA Kit | S100B elisa kit

Human S100 Calcium Binding Protein B (S100B) Mini Samples ELISA Kit

CATALOG #
AAA190259

REACTIVITY
Human

PRODUCT SYNONYMS

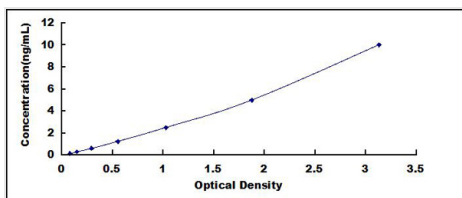
S100 Calcium Binding Protein B (S100B); Human S100 Calcium Binding Protein B (S100B) Mini Samples ELISA Kit; S100B Mini-sample ELISA kit (Human); S100 Calcium Binding Protein B; S100-B; NEF; S100Beta; S-100 protein subunit beta; S100B elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of Mini Samples S100 Calcium Binding Protein B (S100B). No significant cross-reactivity or interference between Mini Samples S100 Calcium Binding Protein B (S100B) and analogues was observed. Reactive with Human S100B/S100 Calcium Binding Protein B
Assay Type	Double-antibody Sandwich
Samples	Serum, Plasma, Tissue homogenates, Cell lysates, Cell culture supernates and other biological fluids
Detection Range	0.156-10ng/mL
Sensitivity	0.054ng/mL
Sample Size	15-25uL
Detection Method	Colormetric
Featured Series	ME kit
Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level Mini Samples S100 Calcium Binding Protein B (S100B) were tested 20 times on one plate, respectively. Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level Mini Samples S100 Calcium Binding Protein B (S100B) were tested on 3 different plates, 8 replicates in each plate. $CV(\%) = SD/mean \times 100$ Intra-Assay: CV<10%, Inter-Assay: CV<12%
Function	Detects protein (micro-volume samples 15-25 ul)
Assay Procedure Summary	1. Prepare all reagents, samples and standards 2. Add 25ul standard or sample to each well. Incubate 1 hour at 37 degree C 3. Aspirate and add 25ul prepared Detection Reagent A. Incubate 1 hour at 37 degree C 4. Aspirate and wash 3 times 5. Add 25ul prepared Detection Reagent B. Incubate 30 minutes at 37 degree C 6. Aspirate and wash 5 times 7. Add 25ul Substrate Solution. Incubate 10-20 minutes at 37 degree C 8. Add 20ul Stop Solution. Read at 450nm immediately.

Test Principle	The test principle applied in this kit is Sandwich enzyme immunoassay. The microtiter plate provided in this kit has been pre-coated with an antibody specific to Mini Samples S100 Calcium Binding Protein B (S100B). Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody specific to Mini Samples S100 Calcium Binding Protein B (S100B). Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, only those wells that contain Mini Samples S100 Calcium Binding Protein B (S100B), biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm +/- 10nm. The concentration of Mini Samples S100 Calcium Binding Protein B (S100B) in the samples is then determined by comparing the O.D. of the samples to the standard curve.
Research Area	Tumor immunity, Infection immunity, Neuro science
Preparation and Storage	Store at 4 degree C for 1 month/-20 degree C for long-term (One year within shelf life) The stability of 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. To minimize extra influence on the performance, operation procedures and lab conditions, especially room temperature, air humidity, incubator temperature should be strictly controlled. It is also strongly suggested that the whole assay is performed by the same operator from the beginning to the end.

IMAGES



Standard Curve (Sample)

NCBI AND UNIPROT INFORMATION

NCBI GI #	12804681
NCBI GeneID	6285
UniProt Accession #	P04271; D3DSN6
Molecular Weight	10,713 Da
NCBI Official Full Name	S100 calcium binding protein B
NCBI Official Synonym Full Names	S100 calcium binding protein B
NCBI Official Symbol	S100B
NCBI Official Synonym Symbols	NEF; S100; S100-B; S100beta
NCBI Protein Information	protein S100-B; S-100 protein subunit beta; S-100 calcium-binding protein, beta chain; S100 calcium-binding protein, beta (neural)
UniProt Protein Name	Protein S100-B
UniProt Gene Name	S100B
UniProt Entry Name	S100B_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.