

Human S100-A13 ELISA Kit | S100A13 elisa kit

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CATALOG #
AAA263358

REACTIVITY
Human

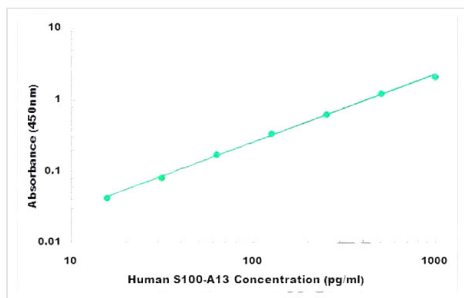
PRODUCT SYNONYMS

S100-A13; Human S100-A13 ELISA Kit; Protein S100-A13; S100 calcium-binding protein A13; S100A13 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	The Human S100-A13 ELISA Kit allows for the detection and quantification of endogenous levels of natural and/or recombinant Human S100-A13 proteins within the range of 15.6 pg/ml - 1000 pg/ml.
Sequence Length	98
Samples	Culture Supernates, Serum, Plasma, Cell Lysates, Tissue Homogenates
Sensitivity	< 7 pg/ml
Detection Method	Colorimetric
Preparation and Storage	Store at 4 degree C for 6 months, store at -20 degree C for one year. Avoid freeze/thaw cycles.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for S100A13 elisa kit	Background: S100A13 is an 11 kDa member of the S100 (soluble in 100% saturated ammonium sulfate) family of vertebrate EF-hand Ca2+-binding proteins. Like other S100 proteins, S100A13 is small and generally acidic, but contains a basic residue rich sequence at the C-terminus, and two EF hand motifs that bind with Ca2+ differing affinities. Some S100 proteins, including S100A13, are able to bind the cell surface receptor for advanced glycation endproducts (RAGE). Despite lacking a signal sequence, S100A13 plays an important role in Cu2+-dependent export of FGF-1 (FGF acidic) and IL-1 alpha from the cell in response to stresses such as heat shock, anoxia and starvation. Binding of copper is necessary for formation of a multiprotein complex between S100A13, FGF-1 and p40 synaptotagmin1 (sy11). Cu2+ ions supplied by S100A13 are thought to oxidize and downregulate the activity of FGF-1 prior to export. calcium influx may also play a similar role in FGF-1 release from neuronal cells. With FGF-1 and sy11, S100A13 likely perturbs the membrane, which allows the S100A13 protein complex to exit the cell. S100A13 has been proposed as a marker for angiogenesis in tumors and endometrium, due to its role in stress induced export of FGF-1. Principle of the Assay: The Human S100-A13 ELISA (Enzyme-Linked Immunosorbent Assay) kit is an in vitro enzyme-linked immunosorbent assay for the quantitative measurement of Human S100-A13 in Cell Culture Supernates, Serum, Plasma, Cell Lysates, Tissue Homogenates. This assay employs an antibody specific for Human S100-A13 coated on a 96-well plate. Standards and samples are pipetted into the wells and S100-A13 present in a sample is bound to the wells by the immobilized antibody. The wells are washed and biotinylated anti-Human S100-A13 antibody is added. After washing away unbound biotinylated antibody, HRP-conjugated streptavidin is pipetted to the wells. The wells are again washed, a TMB substrate solution is added to the wells and color develops in proportion to the amount of S100-A13 bound. The Stop Solution changes the color from blue to yellow, and the intensity of the color is measured at 450 nm.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	66737368
NCBI GeneID	6284
NCBI Accession #	NP_001019381.1
NCBI GenBank Nucleotide #	NM_001024210.1
UniProt Accession #	Q99584; Q52PI9; Q6FGF8
Molecular Weight	11,471 Da
NCBI Official Full Name	protein S100-A13
NCBI Official Synonym Full Names	S100 calcium binding protein A13
NCBI Official Symbol	S100A13
NCBI Protein Information	protein S100-A13
UniProt Protein Name	Protein S100-A13
UniProt Gene Name	S100A13

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.

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Online datasheet: <https://stage.aaabiotech.com/s100a13-human-elisa-kits/s100-a13/263358>