

Human Soluble Protein-100 (S-100) ELISA Kit | S-100 elisa kit

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CATALOG #
AAA330972

REACTIVITY
Human

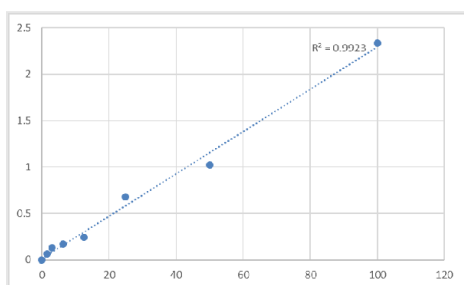
PRODUCT SYNONYMS

Soluble Protein-100 (S-100); Human Soluble Protein-100 (S-100) ELISA Kit; S100A1; S100; S100-alpha; S100A; S100 alpha; S100 calcium-binding protein A1; S100 protein; alpha polypeptide; S-100 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Human Soluble protein-100 (S-100) ELISA Kit has high sensitivity and excellent specificity for detection of Human S100A1. No significant cross-reactivity or interference between Human S100A1 and analogues was observed.
Sequence Length	94
Assay Type	Sandwich ELISA (Quantitative)
Samples	Cell Culture Supernatants, Serum, Plasma, Other Biological Fluids
Detection Method	Colorimetric
Usage Notes	* Do not mix components from different kit lots or use reagents beyond the kit expiration date. * Allow all reagents to warm to room temperature for at least 30 minutes before opening. * Pre-rinse the pipet tip with reagent, use fresh pipet tips for each sample, standard and reagent to avoid contamination. * Unused wells must be kept desiccated at 4 degree C in the sealed bag provided. * Mix Thoroughly is very important for the result. It is recommended using low frequency oscillator or slight hand shaking every 10 minutes. * It is recommended that all samples and standards be assayed in duplicate or triplicate.
Preparation and Storage	Store at 2-8 degree C.

IMAGES



Standard Curve (Sample)

Fig.1. Human Soluble protein-100 (S-100) Standard Curve.

ADDITIONAL INFORMATION

Related Product Information for S-100 elisa kit	Description: This Human Soluble protein-100 (S-100) ELISA Kit employs a two-site sandwich ELISA to quantitate S100A1 in samples. An antibody specific for S100A1 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any S100A1 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for S100A1 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 S100A1 bound in the initial step. The color development is stopped and the intensity of the color is measured. Background: A1is a member of the S100 family of proteins containing 2 EF-hand calcium-binding motifs. This protein may function in stimulation of Ca2+-induced Ca2+ release, inhibition of microtubule assembly, and inhibition of protein kinase C-mediated phosphorylation. Reduced expression of this protein has been implicated in cardiomyopathies. S100A1 overexpression enhances cardiac contractile performance which suggests that S100A1 is a regulator of myocardial contractility. S100A1 improves cardiac performance both by regulating calcium ion handling by the sarcoplasmic reticulum and the responsiveness of myofibrils to calcium ion.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	5454032
NCBI GeneID	6271
NCBI Accession #	NP_006262.1
NCBI GenBank Nucleotide #	NP_006262.1
UniProt Accession #	P23297
NCBI Official Full Name	protein S100-A1
NCBI Official Synonym Full Names	S100 calcium binding protein A1
NCBI Official Symbol	S100A1
NCBI Official Synonym Symbols	S100; S100A; S100-alpha
NCBI Protein Information	protein S100-A1
UniProt Protein Name	Protein S100-A1
UniProt Gene Name	S100A1
UniProt Synonym Gene Names	S100A
UniProt Entry Name	S10A1_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.