

Human Kallistatin (SERPINA4) ELISA Kit | KST elisa kit

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CATALOG #
AAA330913

REACTIVITY
Human

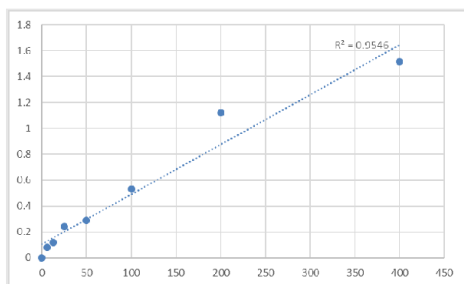
PRODUCT SYNONYMS

Kallistatin (SERPINA4); Human Kallistatin (SERPINA4) ELISA Kit; SERPINA4; KAL; KLST; PI4; kallistatin; protease inhibitor 4 (kallistatin); serine (or cysteine) proteinase inhibitor; clade A (alpha-1 antiproteinase; antitrypsin); member 4; KST elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Human Kallistatin (SERPINA4) ELISA Kit has high sensitivity and excellent specificity for detection of Human SERPINA4. No significant cross-reactivity or interference between Human SERPINA4 and analogues was observed.
Sequence Length	427
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 Kallistatin (SERPINA4) Standard Curve.

ADDITIONAL INFORMATION

Related Product Information for KST elisa kit	Description: This Human Kallistatin (SERPINA4) ELISA Kit employs a two-site sandwich ELISA to quantitate SERPINA4 in samples. An antibody specific for SERPINA4 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any SERPINA4 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for SERPINA4 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 SERPINA4 bound in the initial step. The color development is stopped and the intensity of the color is measured. Background: Kallistatin is a serine proteinase inhibitor (serpin) and a heparin-binding protein. It is localized in vascular smooth muscle cells and endothelial cells of blood vessels, suggesting that it may be involved in the regulation of vascular function. The 1,284-bp cDNA encodes 427 amino acid residues, including a 26-residue signal peptide and a 401-residue mature peptide. The translated amino acid sequence of kallistatin matches the protein sequence and shares 44 to 46% sequence identity with human alpha-1-antichymotrypsin (AACT), alpha-1-antitrypsin (PI), corticosteroid-binding globulin (CBG), thyroxine-binding globulin of serum (TBG), and protein C inhibitor (PCI). All of these except TBG, which is encoded by the X chromosome, are encoded by genes on chromosome 14.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	573459745
NCBI GeneID	5267
NCBI Accession #	NP_001275962.1
NCBI GenBank Nucleotide #	NP_001275962.1
UniProt Accession #	P29622
NCBI Official Full Name	kallistatin isoform 2
NCBI Official Synonym Full Names	serpin family A member 4
NCBI Official Symbol	SERPINA4
NCBI Official Synonym Symbols	KAL; KST; PI4; KLST; PI-4; kallistatin
NCBI Protein Information	kallistatin
UniProt Protein Name	Kallistatin
UniProt Gene Name	SERPINA4
UniProt Synonym Gene Names	KST; PI4; PI-4
UniProt Entry Name	KAIN_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.