

Human Serpin H1 (SERPINH1) ELISA Kit | SERPINH1 elisa kit

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CATALOG #
AAA330899

REACTIVITY
Human

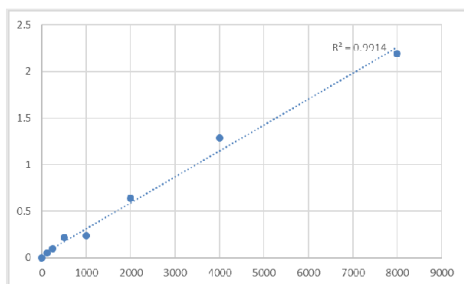
PRODUCT SYNONYMS

Serpin H1 (SERPINH1); Human Serpin H1 (SERPINH1) ELISA Kit; SERPINH1; AsTP3; CBP1; CBP2; HSP47; PIG14; PPROM; RA-A47; SERPINH2; gp46; arsenic-transactivated protein 3; colligin-1; colligin-2; proliferation-inducing gene 14; rheumatoid arthritis antigen A-47; serine (or cys; SERPINH1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Human Serpin H1 (SERPINH1) ELISA Kit has high sensitivity and excellent specificity for detection of Human SERPINH1. No significant cross-reactivity or interference between Human SERPINH1 and analogues was observed.
Sequence Length	418
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 Serpin H1 (SERPINH1) Standard Curve.

ADDITIONAL INFORMATION

Related Product Information for SERPINH1 elisa kit	Description: This Human Serpin H1 (SERPINH1) ELISA Kit employs a two-site sandwich ELISA to quantitate SERPINH1 in samples. An antibody specific for SERPINH1 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any SERPINH1 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for SERPINH1 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 SERPINH1 bound in the initial step. The color development is stopped and the intensity of the color is measured. Background: Heat shock protein 47 is a member of the serpin superfamily of serine proteinase inhibitors. Its expression is induced by heat shock. The protein localizes to the endoplasmic reticulum lumen and binds collagen; thus it is thought to be a molecular chaperone involved in the maturation of collagen molecules. Autoantibodies to this protein have been found in patients with rheumatoid arthritis. Colligins are characterized by an amino acid structure that includes an N-terminal hydrophobic signal sequence and 2 putative N-linked oligosaccharide attachment sites (Clarke et al., 1991). Colligins also have a C-terminal RDEL sequence that acts as an endoplasmic reticulum (ER) retention sequence. Other features permit the colligin-binding protein of ER to be classified as a serpin (serine-arginine protease inhibitor).
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NCBI AND UNIPROT INFORMATION

NCBI GI #	114051505
NCBI GeneID	510850
NCBI Accession #	NP_001039528.1
NCBI GenBank Nucleotide #	NP_001039528.1
UniProt Accession #	Q2KJH6
NCBI Official Full Name	serpin H1
NCBI Official Synonym Full Names	serpin family H member 1
NCBI Official Symbol	SERPINH1
NCBI Protein Information	serpin H1
UniProt Protein Name	Serpin H1
UniProt Gene Name	SERPINH1
UniProt Synonym Gene Names	Colligin
UniProt Entry Name	SERPH_BOVIN

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.