

Human Sonic Hedgehog Protein (SHH) ELISA Kit | SHH elisa kit

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CATALOG #
AAA330876

REACTIVITY
Human

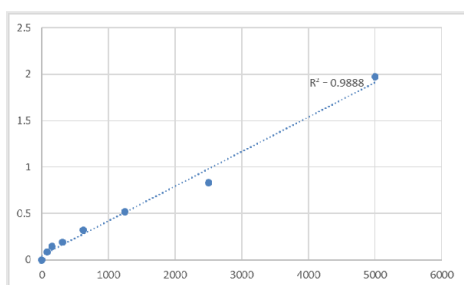
PRODUCT SYNONYMS

Sonic Hedgehog Protein (SHH); Human Sonic Hedgehog Protein (SHH) ELISA Kit; SHH; HHG1; HLP3; HPE3; MCOPCB5; SMMCI; TPT; TPTPS; sonic hedgehog; SHH elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Human Sonic hedgehog protein (SHH) ELISA Kit has high sensitivity and excellent specificity for detection of Human SHH. No significant cross-reactivity or interference between Human SHH and analogues was observed.
Sequence Length	462
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 Sonic hedgehog protein (SHH) Standard Curve.

ADDITIONAL INFORMATION

Related Product Information for SHH elisa kit	Description: This Human Sonic hedgehog protein (SHH) ELISA Kit employs a two-site sandwich ELISA to quantitate SHH in samples. An antibody specific for SHH has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any SHH present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for SHH 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 SHH bound in the initial step. The color development is stopped and the intensity of the color is measured. Background: Sonic hedgehog (Shh) is a member of a small family of secreted proteins that are essential for development in both vertebrates and invertebrates. In mammals, there are three related hedgehog genes (sonic; desert; Indian) which share approximately 60 % amino acid (aa) identity. Human Shh is synthesized as a 437 aa precursor that contains a 24 aa signal sequence and a 413 aa mature region. The mature region is autocatalytically processed into a nonglycosylated, 20 kDa, 174 aa N-terminal fragment (Shh-N), and a catalytic-processing, glycosylated, 34 kDa, 239 aa C-terminal fragment. The 20 kDa Shh-N fragment is the core of the active hedgehog molecule. It begins with a Cys and ends with a Gly, and both amino acids are sites of lipid modification.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	6094283
NCBI GeneID	6469
UniProt Accession #	Q15465
NCBI Official Full Name	Sonic hedgehog protein
NCBI Official Synonym Full Names	sonic hedgehog signaling molecule
NCBI Official Symbol	SHH
NCBI Official Synonym Symbols	TPT; HHG1; HLP3; HPE3; SMMCI; ShhNC; TPTPS; MCOPCB5
NCBI Protein Information	sonic hedgehog protein
UniProt Protein Name	Sonic hedgehog protein
UniProt Gene Name	SHH
UniProt Synonym Gene Names	SHH
UniProt Entry Name	SHH_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.