

Human Sonic hedgehog protein ELISA Kit | SHH elisa kit

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CATALOG #
AAA101683

REACTIVITY
Human

PRODUCT SYNONYMS

Sonic hedgehog protein; Human Sonic hedgehog protein ELISA Kit; SHH/Shh/HHG1/HHG-1/HLP3/HPE3/SMMC1sonic hedgehog homolog (Drosophila)/sonic hedgehog/sonic hedgehog homolog/sonic hedgehog protein/TPT/TPTPS; SHH elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of SHH. No significant cross-reactivity or interference between SHH and analogues was observed.
Sequence Length	462
Assay Type	Sandwich ELISA, Double Antibody
Samples	Serum, Plasma, Cell Culture Supernatant, cell or tissue lysate, Other liquid samples
Detection Range	78.125-5000pg/ml
Sensitivity	46.875pg/ml
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level SHHwere tested 20 times on one plate, respectively. Intra-Assay: CV<8%
Inter-assay Precision	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level SHHwere tested on 3 different plates, 8 replicates in each plate. CV (%) = SD/meanX100. Inter-Assay: CV<10%
Preparation and Storage	Store entire kit at 2-8C for short-term. For longer-term, please store the microplate & standard at -20C, while the remaining reagents can be stored at 2-8C

IMAGES

Typical Data & Standard Curve

Results of a typical standard run of a SHH ELISA Kit are shown below. This standard curve was generated at our lab for demonstration purpose only. Each user should obtain their own standard curve as per experiment. (N/A=not applicable)

X	pg/ml	0	78.125	156.25	312.5	625	1250	2500	5000
Y	OD450	0.004	0.172	0.334	0.659	1.028	1.66	1.941	2.274

Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for SHH elisa kit

Principle of the Assay: This kit was based on sandwich enzyme-linked immune-sorbent assay technology. Anti-SHHantibody was pre-coated onto 96-well plates. And the biotin conjugated anti- SHH antibody was used as detection antibodies. The standards, test samples and biotin conjugated detection antibody were added to the wells subsequently, and wash with wash buffer. HRP-Streptavidin was added and unbound conjugates were washed away with wash buffer. TMB substrates were used to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that changed into yellow after adding acidic stop solution. The density of yellow is proportional to the SHH amount of sample captured in plate. Read the O.D. absorbance at 450nm in a microplate reader, and then the concentration of SHH can be calculated.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4506939
NCBI GeneID	6469
NCBI Accession #	NP_000184.1
NCBI GenBank Nucleotide #	NM_000193.3
Molecular Weight	49,607 Da
NCBI Official Full Name	sonic hedgehog protein isoform 1 preproprotein
NCBI Official Synonym Full Names	sonic hedgehog
NCBI Official Symbol	SHH
NCBI Official Synonym Symbols	TPT; HHG1; HLP3; HPE3; SMMCI; 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.

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Online datasheet: <https://stage.aaabiotech.com/shh-human-elisa-kits/sonic-hedgehog-protein/101683>