

Human HAI-2/SPINT2 ELISA Kit | SPINT2 elisa kit

Human HAI-2/SPINT2 Quick ELISA Kit

CATALOG #
AAA125873

REACTIVITY
Human

PRODUCT SYNONYMS

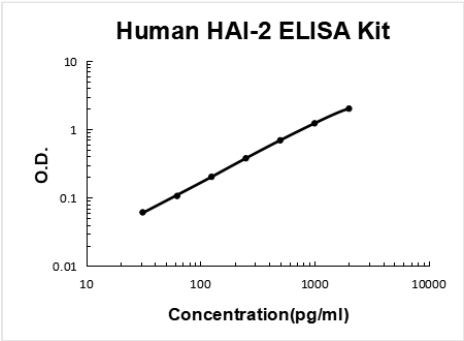
HAI-2/SPINT2; Human HAI-2/SPINT2 Quick ELISA Kit; HAI-2/SPINT2|HAI2; HAI-2; HAI-2DIAR3; HAI2FLJ45571; Hepatocyte growth factor activator inhibitor type 2; Kop; kunitz-type protease inhibitor 2; PB; Placental bikunin; serine peptidase inhibitor; Kunitz type; 2; serine protease inhibitor; SPINT2 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Natural and recombinant Human SPINT2
Assay Type	Colorimetric sandwich
Samples	cell culture supernatants, serum, plasma (heparin, EDTA) and cell lysates
Detection Range	31.2pg/ml-2,000pg/ml
Sensitivity	<10pg/ml
Capture/Detection Antibodies	Capture antibody- polyclonal antibody from goat Detection antibody- polyclonal antibody from goat
Sample Data	Concentration(pg/ml) 0 31.2 62.5 125 250 500 1000 2000 O.D. 0.096 0.157 0.202 0.298 0.473 0.787 1.322 2.105
Intra-Assay Precision	Sample 1 2 3 n 16 16 16 Mean(pg/ml) 59 211 923 Standard deviation 3.07 10.97 61.84 CV(%) 5.2% 5.2% 6.7%
Inter-Assay Precision	Sample 1 2 3 n 24 24 24 Mean(pg/ml) 61 224 890 Standard deviation 3.54 12.32 62.3 CV(%) 5.8% 5.5% 7%
Reproducibility	To assay reproducibility, three samples with differing target protein concentrations were assayed using four different lots. Lots: Lot 1 (pg/ml) Lot 2 (pg/ml) Lot 3 (pg/ml) Lot 4 (pg/ml) Mean (pg/ml) Standard Deviation CV (%) Sample 1: 59 51 45 47 51 2.22 4.4% Sample 2: 211 221 223 199 214 8.33 3.9% Sample 3: 923 961 826 917 907 53.5 5.9% *number of samples for each test n=16.
Cross Reactivity	There is no detectable cross-reactivity with other relevant proteins.
Immunogen	Expression system for standard: NS0; Immunogen sequence: M1-K197
Anticoagulant	heparin or EDTA
Benefits	The Quick ELISA kits, assay takes less than 1.5 hours. Detect Human HAI-2/SPINT2 with <10pg/ml sensitivity. Format: 96-well plate with removable strips. This is a TMB colorimetric sandwich ELISA kit with short assay time and quick experiment set up.

Principle	Human SPINT2 Pre-Coated ELISA (Enzyme-Linked Immunosorbent Assay) kit is a solid phase immunoassay specially designed to measure Human SPINT2 in cell culture supernatants, serum, plasma (heparin, EDTA) and cell lysates. It uses our proprietary Quick ELISA technology. Quick ELISA technology employs capture antibodies conjugated to an affinity tag that is recognized by the polyclonal antibody used to coat our Quick ELISA plates. This approach to sandwich ELISA allows the formation of the antibody-analyte sandwich complex in a single step, significantly reducing assay time. The kit contains recombinant Human SPINT2 with immunogen: Expression system for standard: NS0; Immunogen sequence: M1-K197. To measure Human SPINT2, add standards and samples to the wells, then add antibody cocktail. Wash the wells with PBS or TBS buffer, and add TMB. TMB is substrate to HRP and will be catalyzed to produce a blue color product, which changes into yellow after adding acidic stop solution. The density of the yellow product is linearly proportional to Human SPINT2 in the sample. Read the density of the yellow product in each well using a plate reader, and benchmark the sample wells' readings against the standard curve to determine the concentration of Human SPINT2 in the sample.
Assay Procedure Step 1	2000pg/ml, 1000pg/ml, 500pg/ml, 250pg/ml, 125pg/ml, 62.5pg/ml, 31.25pg/ml
TMB Incubation Time	15
Preparation and Storage	Store at 4 degree C for 6 months, at -20 degree C for 12 months. Avoid multiple freeze-thaw cycles. (Shipped with wet ice.)

IMAGES



Application Data

ADDITIONAL INFORMATION

Related Product Information for SPINT2 elisa kit	Kunitz-type protease inhibitor 2 is an enzyme inhibitor that in humans is encoded by the SPINT2 gene. This gene encodes a transmembrane protein with two extracellular Kunitz domains that inhibits a variety of serine proteases. The protein inhibits HGF activator which prevents the formation of active hepatocyte growth factor. And this gene is a putative tumor suppressor, and mutations in this gene result in congenital sodium diarrhea. Multiple transcript variants encoding different isoforms have been found for this gene.
Product Categories/Family for SPINT2 elisa kit	ELISA kits

NCBI AND UNIPROT INFORMATION

NCBI GI #	260656008
NCBI GeneID	10653
NCBI Accession #	NP_001159575.1
NCBI GenBank Nucleotide #	NM_001166103.1
UniProt Accession #	O43291; O00271; O14895; Q5TZQ3; Q969E0; A8K667; B4DLU1
Molecular Weight	21,828 Da
NCBI Official Full Name	kunitz-type protease inhibitor 2 isoform b

NCBI Official Synonym Full Names	serine peptidase inhibitor, Kunitz type, 2
NCBI Official Symbol	SPINT2
NCBI Official Synonym Symbols	PB; Kop; HAI2; DIAR3; HAI-2
NCBI Protein Information	kunitz-type protease inhibitor 2
UniProt Protein Name	Kunitz-type protease inhibitor 2
UniProt Gene Name	SPINT2
UniProt Synonym Gene Names	HAI2; KOP; HAI-2
UniProt Entry Name	SPIT2_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://www.aaabiotech.com/human-elisa-kits/hai-2-spint2/125873>