

Human PI3 ELISA Kit | PI3 elisa kit

Human PI3 ELISA Kit

CATALOG # AAA105715	REACTIVITY Human	APPLICATIONS ELISA
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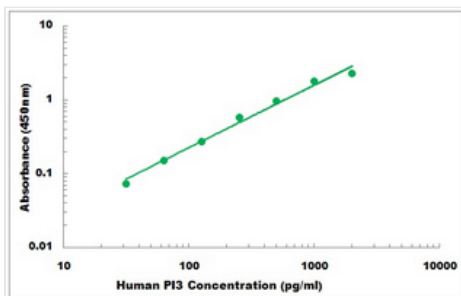
PRODUCT SYNONYMS

PI3; Human PI3 ELISA Kit; WAP3; WFDC14; Elafin; Elastase-specific inhibitor; ESI; Peptidase inhibitor 3; PI-3; Protease inhibitor WAP3; Skin-derived antileukoproteinase; SKALP; WAP four-disulfide core domain protein 14; PI3 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	The Human PI3 ELISA Kit allows for the detection and quantification of endogenous levels of natural and/or recombinant Human PI3 proteins within the range of 31.2 pg/ml - 2000 pg/ml.
Sequence Length	117
Sensitivity	The minimum detectable dose of Human PI3 is typically less than 10 pg/ml.
Applicable Applications for PI3 elisa kit	ELISA (Sandwich ELISA)
Preparation and Storage	Shipped and store at 4 degree C for 6 months, store at -20 degree C for one year. Avoid freeze/thaw cycles.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for PI3 elisa kit	Principle of the assay: The Human PI3 ELISA (Enzyme-Linked Immunosorbent Assay) kit is an in vitro enzyme-linked immunosorbent assay for the quantitative measurement of Human PI3 in Cell Culture Supernatants, Serum, Plasma. This assay employs an antibody specific for Human PI3 coated on a 96-well plate. Standards and samples are pipetted into the wells and PI3 present in a sample is bound to the wells by the immobilized antibody. The wells are washed and biotinylated anti-Human PI3 antibody is added. After washing away unbound biotinylated antibody, HRP-conjugated streptavidin is pipetted to the wells. The wells are again washed, a TMB substrate solution is added to the wells and color develops in proportion to the amount of PI3 bound. The Stop Solution changes the color from blue to yellow, and the intensity of the color is measured at 450 nm. Background: Elafin, also known as peptidase inhibitor 3 or skin-derived antileukoproteinase (SKALP) is a protein that in humans is encoded by the PI3 gene. It is mapped to 20q13.12. This gene encodes an elastase-specific inhibitor that functions as an antimicrobial peptide against Gram-positive and Gram-negative bacteria. The protein contains a WAP-type four-disulfide core (WFDC) domain, and is thus a member of the WFDC domain family. Most WFDC gene members are localized to chromosome 20q12-q13 in two clusters: centromeric and telomeric. This gene belongs to the centromeric cluster. Expression of this gene is upregulated by bacterial lipopolysaccharides and cytokines. This gene is the neutrophil and pancreatic elastase-specific inhibitor of skin. It may prevent elastase-mediated tissue proteolysis.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	4505787
NCBI GeneID	5266
NCBI Accession #	NP_002629.1
NCBI GenBank Nucleotide #	NM_002638.3
UniProt Accession #	P19957; Q6FG74; E1P618
Molecular Weight	12,270 Da
NCBI Official Full Name	elafin preproprotein
NCBI Official Synonym Full Names	peptidase inhibitor 3, skin-derived
NCBI Official Symbol	PI3
NCBI Official Synonym Symbols	ESI; WAP3; SKALP; WFDC14; cementoin
NCBI Protein Information	elafin; PI-3; trappin-2; pre-elafin; protease inhibitor WAP3; elastase-specific inhibitor; skin-derived antileukoproteinase; WAP four-disulfide core domain 14; WAP four-disulfide core domain protein 14; protease inhibitor 3, skin-derived (SKALP)
UniProt Protein Name	Elafin
UniProt Gene Name	PI3
UniProt Synonym Gene Names	WAP3; WFDC14; ESI; PI-3; SKALP
UniProt Entry Name	ELAF_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/human-elisa-kits/pi3/105715>