

Datasheet for ABIN6720164
PI3 ELISA Kit[Go to Product page](#)

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Overview

Quantity:	1 kit
Target:	PI3
Reactivity:	Human
Method Type:	Sandwich ELISA
Detection Range:	31.2 pg/mL - 2000 pg/mL
Minimum Detection Limit:	31.2 pg/mL
Application:	ELISA

Product Details

Purpose:	Sandwich ELISA for Quantitative Detection of Antigen
Sample Type:	Cell Culture Supernatant, Plasma (EDTA - heparin), Serum
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Characteristics:	<p>Synonyms: Cementoin, Elafin, Elastase specific inhibitor, ESI, MGC13613, Peptidase inhibitor 3, Peptidase inhibitor 3 skin derived, PI 3, PI3, Pre elafin, Protease inhibitor WAP3, SKALP, Skin derived antileukoproteinase, Trappin 2, WAP four disulfide core domain 14, WAP four disulfide core domain protein 14, WAP3, WFDC14</p> <p>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</p>

Product Details

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.

Gene Name: PI3

Production: Natural and recombinant human Elafin. There is no detectable cross-reactivity with other relevant proteins.

Standard: Expression system for standard: NSO, Immunogen sequence: A23-Q117

Target Details

Target: PI3

Alternative Name: Elafin - PI3 ([PI3 Products](#))

Gene ID: 5266

NCBI Accession: [NP_002629](#)

UniProt: [P19957](#)

Application Details

Application Notes: Application Note: Useful in Sandwich ELISA for Quantitative Detection of Antigen. Aliquot 0.1 mL per well of the 2000pg/mL, 1000pg/mL, 500pg/mL, 250pg/mL, 125pg/mL, 62.5pg/mL, 31.2pg/mL human Elafin standard solutions into the precoated 96-well plate. Add 0.1 mL of the sample diluent buffer into the control well (Zero well). Add 0.1 mL of each properly diluted sample of human cell culture supernates, serum and plasma(heparin, EDTA) to each empty well. It is recommended that each human Elafin standard solution and each sample be measured in duplicate.

Blood Product Anticoagulant: Heparin Sodium

ELISA Dilution: 31.2pg/mL-2000pg/mL

Sample Volume: 100 µL

Plate: Pre-coated

Restrictions: For Research Use only

Handling

Storage:	RT,4 °C,-20 °C
Storage Comment:	Store vials at 4°C prior to opening. Centrifuge product if not completely clear after standing at room temperature. This product is stable for 6 months at 4°C as an undiluted liquid. Dilute only prior to immediate use. For extended storage freeze at -20°C or below for 12 months. Avoid cycles of freezing and thawing.

Images

