

Rabbit anti-Human Elafin Polyclonal Antibody | anti-PI3 antibody

Anti-Elafin Antibody, Rabbit Polyclonal

CATALOG # AAA255535	HOST Rabbit	REACTIVITY Human	APPLICATIONS Immunohistochemistry, ELISA
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PRODUCT SYNONYMS

Elafin; Polyclonal Antibody; Anti-Elafin Antibody; Rabbit Polyclonal; PI3/Elafin/WFDC14 Antibody; Rabbit PAb; Antigen Affinity Purified; peptidase inhibitor 3; Anti-cementoin Antibody; Anti-ESI Antibody; Anti-MGC13613 Antibody; Anti-SKALP Antibody; Anti-WAP3 Antibody; Anti-WFDC14 Antibody; anti-PI3 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Human PI3/Elafin/WFDC14
Purity/Purification	Protein A & Antigen Affinity
Form/Format	Liquid; 0.2um filtered solution in PBS
Applicable Applications for anti-PI3 antibody	IHC (Immunohistochemistry), ELISA
Immunogen	Recombinant Human PI3/Elafin/WFDC14 Protein
Conjugation	Unconjugated
Preparation	Produced in rabbits immunized with purified, recombinant Human PI3/Elafin/WFDC14 (rh PI3/Elafin/WFDC14). PI3/Elafin/WFDC14 specific IgG was purified by Human PI3/Elafin/WFDC14 affinity chromatography.
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Preservative-Free. Avoid repeated freeze-thaw cycles.

IMAGES



IHC (Immunohistochemistry)

Immunochemical staining of human PI3 in human kidney with rabbit polyclonal antibody (1:1000, formalin-fixed paraffin embedded sections).



IHC (Immunohistochemistry)

Immunochemical staining of human PI3 in human skin with rabbit polyclonal antibody (1:1000, formalin-fixed paraffin embedded sections).

ADDITIONAL INFORMATION

Related Product Information for anti-PI3 antibody	Elafin, also known as Elastase-specific inhibitor, Peptidase inhibitor 3, Protease inhibitor WAP3, Skin-derived antileukoproteinase, WAP four-disulfide core domain protein 14, PI3, WAP3 and WFDC14, is a secreted protein that contains one WAP domain. Elafin/PI3 consists of two domains: the transglutaminase substrate domain (cementoin moiety) and the elastase inhibitor domain. The transglutaminase substrate domain at the N-terminus serves as an anchor to localize elafin covalently to specific sites on extracellular matrix proteins. The serine anti-protease Elafin/PI3 is expressed by monocytes, alveolar macrophages, neutrophils, and at mucosal surfaces and possesses antimicrobial activity. It is also known to reduce lipopolysaccharide-induced neutrophil influx into murine alveoli as well as to abrogate lipopolysaccharide-induced production of matrix metalloprotease 9, macrophage inhibitory protein 2, and tumor necrosis factor-alpha by as-yet unidentified mechanisms. Elafin/PI3 is a neutrophil serine protease inhibitor expressed in lung and displaying anti-inflammatory and anti-bacterial properties. Elafin/PI3 is a neutrophil and pancreatic elastase-specific inhibitor of skin. It may prevent elastase-mediated tissue proteolysis. Elafin/PI3 will regulate proteolytic enzymes during menstruation and will contribute to the innate defense against uterine infection.
Product Categories/Family for anti-PI3 antibody	Serine Proteases and Regulators
References	Skolnik E.Y., et al., (1991), Cloning of PI3 kinase-associated p85 utilizing a novel method for expression/cloning of target proteins for receptor tyrosine kinases. Cell 65:83-90.Antonetti D.A., et al., (1996), Insulin receptor substrate 1 binds two novel splice variants of the regulatory subunit of phosphatidylinositol 3-kinase in muscle and brain.Mol. Cell. Biol. 16:2195-2203.Deloukas P., et al., (2001), The DNA sequence and comparative analysis of human chromosome 20.Nature 414:865-871.

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
NCBI Official Symbol	PI3
NCBI Official Synonym Symbols	ESI; WAP3; SKALP; WFDC14; cementoin
NCBI Protein Information	elafin
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.