Peptidase Inhibitor 3, Skin Derived (PI3) Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	Peptidase Inhibitor 3, Skin Derived (PI3), Monoclonal Antibody
Full Product Name	Monoclonal Antibody to Peptidase Inhibitor 3, Skin Derived (PI3)
Product Gene Name	anti-PI3 antibody
Product Synonym Names	PI3/Peptidase Inhibitor 3, Skin Derived; SKALP; ESI; WAP3; WFDC14; Elafin; SkinDerived Antileukoproteinase; Cementoin; Elastasespecific inhibitor; WAP fourdisulfide core domain protein 14
Clonality	Monoclonal
Isotype	IgG1 Kappa
Clone Number	C8
Host	Mouse
Species Reactivity	Human
Form/Format	Liquid; 0.01M PBS, pH7.4, containing 0.05% Proclin300, 50% glycerol.
Purity/Purification	Protein A + Protein G affinity chromatography
Concentration	1mg/mL (lot specific)
Specificity	The antibody is a mouse monoclonal antibody raised against PI3. It has been selected for its ability to recognize PI3 in immunohistochemical staining and western blotting.
Preparation and Storage	Store at 2 degree C to 8 degree C for frequent use, 20 degree C for 24 months The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 degree C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Matching Pairs	Unconjugated Antibody: PI3 Clone #C8 (MBS2139191) APC-CY7 Conjugated Antibody: PI3 Clone #C8 (MBS2135489)
Matching Pairs	Unconjugated Antibody: PI3 Clone #C8 (MBS2139191) PE Conjugated Antibody: PI3 Clone #C8 (MBS2135490)
Matching Pairs	Unconjugated Antibody: PI3 Clone #C8 (MBS2139191) APC Conjugated Antibody: PI3 Clone #C8 (MBS2135491)
Matching Pairs	Unconjugated Antibody: PI3 Clone #C8 (MBS2139191) Cy3 Conjugated Antibody: PI3 Clone #C8 (MBS2135492)
Matching Pairs	Unconjugated Antibody: PI3 Clone #C8 (MBS2139191) Biotin Conjugated Antibody: PI3 Clone #C8 (MBS2135493)
Matching Pairs	Unconjugated Antibody: PI3 Clone #C8 (MBS2139191) FITC Conjugated Antibody: PI3 Clone #C8 (MBS2135494)
Matching Pairs	Unconjugated Antibody: PI3 Clone #C8 (MBS2139191) HRP Conjugated Antibody: PI3 Clone #C8 (MBS2135495)
Molecular Weight	12,270 Da
OMIM	182257
3D Structure	ModBase 3D Structure for P19957

Supply Chain Verification	Manufactured in a lab with traceable raw materials. Bulk orders can typically be prepared to the customer's specifications, please inquire.
Immunogen Type	Prokaryotic Recombinant proteins/RP
Sequence of Immunogen	Phe41~Gln117
Conjugation	Unconjugated
Product Categories/Family for anti-PI3 antibody	Immune molecule; Primary
ISO Certification	Manufactured in an ISO 9001:2015 and ISO 13485:2016 Certified Laboratory.
Applications Tested/Suitable for anti-PI3 antibody	Western Blot (WB), Immunohistochemistry (IHC), Immunocytochemistry (ICC), Immunoprecipitation (IP)
Application Notes for anti-PI3 antibody	WB: 0.52ug/mL IHC: 520ug/mL ICC: 520ug/mL
Related Product Information for anti-PI3 antibody	MBS2139191 is an antibody targeting PI3. Also known as Monoclonal Antibody to Peptidase Inhibitor 3, Skin Derived (PI3). Reactive in Human. Host: Mouse.
Other Notes	Small volumes of anti-PI3 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PI3. It may not necessarily be applicable to this product.

NCBI GI #	4505787
NCBI GeneID	5266
NCBI Accession #	NP_002629.1
UniProt Primary Accession #	P19957
UniProt Secondary Accession #	Q6FG74; E1P618
UniProt Related Accession #	P19957
GenBank Nucleotide #	NM_002638.3
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
UniProt Protein Name	Elafin
UniProt Synonym Protein Names	Elastase-specific inhibitor; ESI; Peptidase inhibitor 3; PI-3; Protease inhibitor WAP3; Skin-derived antileukoproteinase; SKALP; WAP four-disulfide core domain protein 14
Protein Family	Elafin
UniProt Gene Name	PI3
UniProt Synonym Gene Names	WAP3; WFDC14; ESI; PI-3; SKALP
UniProt Entry Name	ELAF_HUMAN
NCBI Protein Information	elafin

UniProt Comments for PI3	elafin: Neutrophil and pancreatic elastase-specific inhibitor of skin. It may prevent elastase-mediated tissue proteolysis. Protein type: Extracellular matrix; Inhibitor; Secreted; Secreted, signal peptide Chromosomal Location of Human Ortholog: 20q13.12 Cellular Component: proteinaceous extracellular matrix Molecular Function: endopeptidase inhibitor activity
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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