

Rabbit PI4KCA Polyclonal Antibody | anti-PI4KCA antibody

PI4KCA Antibody (N-term)

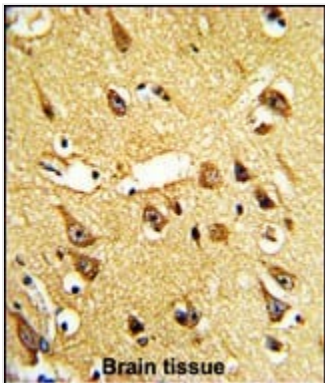
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA290984	Rabbit	Human Predicted Reactivity: Bovine, Mouse, Rat	Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

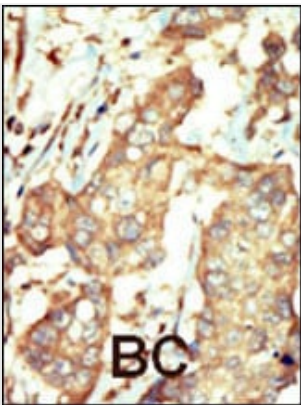
PI4KCA; Polyclonal Antibody; PI4KCA Antibody (N-term); Purified Rabbit Polyclonal Antibody (Pab); Phosphatidylinositol 4-kinase alpha; PI4-kinase alpha; PI4K-alpha; PtdIns-4-kinase alpha; PI4KA; PIK4; PIK4CA; anti-PI4KCA antibody

PRODUCT SPECIFICATIONS

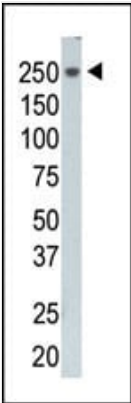
Host	Rabbit
Reactivity	Human Predicted Reactivity: Bovine, Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit Ig
Clone Number	RB1671-1672
Specificity	This PI4KCA antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 6-36 amino acids from the N-terminal region of human PI4KCA.
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
Applicable Applications for anti-PI4KCA antibody	IHC (Immunohistochemistry), WB (Western Blot)
Antigen Source	Human
Antigen Region	6-36
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 2 weeks. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.



IHC (Immunohistochemisry)
Formalin-fixed and paraffin-embedded human brain tissue reacted with PI4KCA Antibody (N-term), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



IHC (Immunohiostchemistry)
Formalin-fixed and paraffin-embedded human cancer tissue reacted with the primary antibody, which was peroxidase-conjugated to the secondary antibody, followed by AEC staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated. BC = breast carcinoma; HC = hepatocarcinoma.



WB (Western Blot)
The anti-PI4KCA Pab is used in Western blot to detect PI4KCA in human placenta tissue lysate.

ADDITIONAL INFORMATION

Related Product Information for anti-PI4KCA antibody	Protein kinases are enzymes that transfer a phosphate group from a phosphate donor, generally the g phosphate of ATP, onto an acceptor amino acid in a substrate protein.By this basic mechanism, protein kinases mediate most of the signal transduction in eukaryotic cells, regulating cellular metabolism, transcription, cell cycle progression, cytoskeletal rearrangement and cell movement, apoptosis, and differentiation. With more than 500 gene products, the protein kinase family is one of the largest families of proteins in eukaryotes. The family has been classified in 8 major groups based on sequence comparison of their tyrosine (PTK) or serine/threonine (STK) kinase catalytic domains.This gene encodes a phosphatidylinositol (PI) 4-kinase which catalyzes the first committed step in the biosynthesis of phosphatidylinositol 4,5-bisphosphate. The mammalian PI 4-kinases have been classified into two types, II and III, based on their molecular mass, and modulation by detergent and adenosine. Two transcript variants encoding different isoforms have been described for this gene. Variant 1 is alternatively spliced at the 5' end compared to transcript variant 2. However, it maintains the same reading frame and encodes an isoform 1 (97 kDa) which is truncated at the N-terminus compared to isoform 2 (230 kDa). Isoform 1 has enzymatic properties characteristic of type II PI 4-kinases.Variant 2 is full-length, and encodes the longer isoform 2 with a different N-terminus compared to isoform 1. Isoform 2 has enzymatic properties characteristic of type III PI 4-kinases.
Product Categories/Family for anti-PI4KCA antibody	Primary Antibodies; Signal Transduction
References	Subrahmanyam, G., et al., Eur. J. Immunol. 33(1):46-52 (2003).Huang, C., et al., J. Biol. Chem. 277(23):20293-20300 (2002).Gehrmann, T., et al., Biochim. Biophys. Acta 1437(3):341-356 (1999).Gehrmann, T., et al., Eur. J. Biochem. 253(2):357-370 (1998).Wong, K., et al., J. Biol. Chem. 269(46):28878-28884 (1994).

NCBI AND UNIPROT INFORMATION

NCBI GI #	155030227
NCBI GeneID	5297
NCBI Accession #	NP_002641.1
NCBI GenBank Nucleotide #	NM_002650
UniProt Accession #	P42356; O08662; O02811; E9Q3L2
Molecular Weight	~120 kDa
NCBI Official Full Name	Homo sapiens phosphatidylinositol 4-kinase, catalytic, alpha (PI4KA), transcript variant 2, mRNA
NCBI Official Synonym Full Names	phosphatidylinositol 4-kinase, catalytic, alpha
NCBI Official Symbol	PI4KA
NCBI Official Synonym Symbols	PIK4CA; pi4K230; PI4K-ALPHA
NCBI Protein Information	phosphatidylinositol 4-kinase alpha; PI4-kinase alpha; ptdIns-4-kinase alpha; phosphatidylinositol 4-kinase 230; phosphatidylinositol 4-kinase, type III, alpha
UniProt Protein Name	Phosphatidylinositol 4-kinase alpha
UniProt Gene Name	PI4KA
UniProt Synonym Gene Names	PIK4; PIK4CA; PI4-kinase alpha; PI4K-alpha; PtdIns-4-kinase alpha
UniProt Entry Name	PI4KA_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/polyclonal/pi4kca-antibody-clone-rb1671-1672-immunohistochemistry-western-blot-elisa/290984>