

Rabbit anti-Human PIP5K1A Polyclonal Antibody | anti-PIP5K1A antibody

PIP5K1A Antibody (N-term)

CATALOG # AAA289759	HOST Rabbit	REACTIVITY Human	APPLICATIONS ELISA, Western Blot
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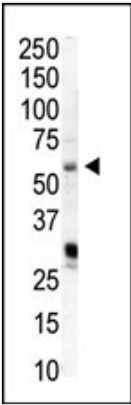
PRODUCT SYNONYMS

PIP5K1A; Polyclonal Antibody; PIP5K1A Antibody (N-term); Phosphatidylinositol 4-phosphate 5-kinase type-1 alpha; PIP5K1-alpha; PtdIns(4)P-5-kinase 1 alpha; 68 kDa type I phosphatidylinositol 4-phosphate 5-kinase alpha; Phosphatidylinositol 4-phosphate 5-kinase type I alpha; PIP5K1alpha; anti-PIP5K1A antibody

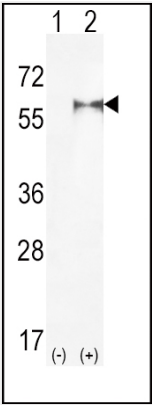
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This PIP5K1A antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 19-50 amino acids from the N-terminal region of human PIP5K1A.
Purity/Purification	Purified Rabbit Polyclonal Antibody (Pab)
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.
Concentration	Vial Concentration: 2 (varies by lot)
Sequence Positions	19-50
Sequence Length	522
Applicable Applications for anti-PIP5K1A antibody	ELISA, WB (Western Blot)
Antigen Type	Synthetic Peptide
Antigen Source	HUMAN
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.

IMAGES



WB (Western Blot)
Western blot analysis of anti-PIP5K1A Pab in HeLa cell lysate. PIP5K1A (arrow) was detected using purified Pab. Secondary HRP-anti-rabbit was used for signal visualization with chemiluminescence.



WB (Western Blot)
Western blot analysis of PIP5K1A (arrow) using rabbit polyclonal hPIP5K1A-R34. 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected (Lane 2) with the PIP5K1A gene.

ADDITIONAL INFORMATION

Related Product Information for anti-PIP5K1A antibody	Overexpression of phosphatidylinositol phosphate 5-kinase alpha (PIP5K1alpha), which synthesizes PIP2, suppresses apoptosis, whereas a kinase-deficient mutant does not. Protection by the wild-type PIP5K1alpha is accompanied by decreases in the generation of activated caspases and of caspase 3-cleaved PARP. Protection is not mediated through PIP3 or Akt activation. An anti-apoptotic role for PIP(2) is substantiated by the finding that PIP5K1alpha is cleaved by caspase 3 during apoptosis, and cleavage inactivates PIP5K1alpha in vitro. Mutation of the P(4) position (D279A) of the PIP5K1alpha caspase 3 cleavage consensus prevents cleavage in vitro, and during apoptosis in vivo. Significantly, the caspase 3-resistant PIP5K1alpha mutant is more effective in suppressing apoptosis than the wild-type kinase. PIP2 is a direct regulator of apical and effector caspases in the death receptor and mitochondrial pathways, and PIP5K1alpha inactivation contributes to the progression of apoptosis.
Product Categories/Family for anti-PIP5K1A antibody	Signal Transduction
References	Doughman, R.L., et al., J. Biol. Chem. 278(25):23036-23045 (2003). Loijens, J.C., et al., J. Biol. Chem. 271(51):32937-32943 (1996). Xie, Y., et al., Cytogenet. Cell Genet. 88 (3-4), 197-199 (2000).

NCBI AND UNIPROT INFORMATION

NCBI GI #	208431774
NCBI GeneID	8394
NCBI Accession #	NP_001129108.1; NP_001129109.1; NP_001129110.1; NP_003548.1
NCBI GenBank Nucleotide #	NM_001135636.1
UniProt Accession #	Q99755; Q99754; Q99756; A8K4Q0; B4DIN0
Molecular Weight	62633
NCBI Official Full Name	phosphatidylinositol 4-phosphate 5-kinase type-1 alpha isoform 3
NCBI Official Synonym Full Names	phosphatidylinositol-4-phosphate 5-kinase, type I, alpha
NCBI Official Symbol	PIP5K1A
NCBI Protein Information	phosphatidylinositol 4-phosphate 5-kinase type-1 alpha
UniProt Protein Name	Phosphatidylinositol 4-phosphate 5-kinase type-1 alpha
UniProt Gene Name	PIP5K1A

UniProt Synonym Gene Names	PIP5K1-alpha; PtdIns(4)P-5-kinase 1 alpha; PIP5K1alpha
UniProt Entry Name	PI51A_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/polyclonal/pip5k1a-antibody-western-blot-elisa/289759>