

Rabbit PI4K2A Polyclonal Antibody | anti-PI4K2A antibody

PI4K2A Antibody (C-term)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA288654	Rabbit	Human (Predicted Reactivity: Zebrafish, Rat)	ELISA, Western Blot

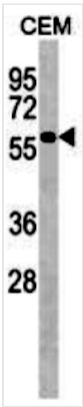
PRODUCT SYNONYMS

PI4K2A; Polyclonal Antibody; PI4K2A Antibody (C-term); Phosphatidylinositol 4-kinase type 2-alpha; Phosphatidylinositol 4-kinase type II-alpha; anti-PI4K2A antibody

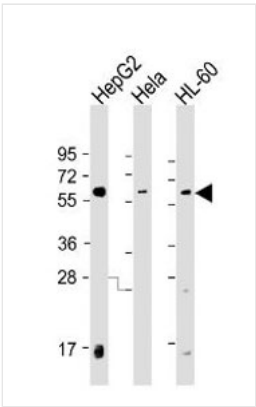
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human (Predicted Reactivity: Zebrafish, Rat)
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This PI4K2A antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 387-415 amino acids from the C-terminal region of human PI4K2A.
Purity/Purification	This antibody is purified through a protein A column, followed by peptide affinity purification.
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide.
Sequence Positions	387-415
Sequence Length	479
Applicable Applications for anti-PI4K2A antibody	ELISA, WB (Western Blot)
Function	Membrane-bound phosphatidylinositol-4kinase (PI4- kinase) that catalyzes thephosphorylation of phosphatidylinositol (PI) tophosphatidylinositol 4-phosphate (PI4P), alipid that plays important roles inendocytosis, Golgi function, protein sortingand membrane trafficking and is required forprolonged survival of neurons. Besides, phosphorylation of phosphatidylinositol (PI) tophosphatidylinositol 4-phosphate (PI4P) is thefirst committed step in the generation of phosphatidylinositol 4,5-bisphosphate (PIP2),a precursor of the second messenger inositol1,4,5-trisphosphate (InsP3).
Cellular Location	Cellular Location Golgi apparatus, trans-Golgi network membrane; Lipid-anchor. Membrane raft. Cell projection, dendrite {ECO:0000250 UniProtKB:Q2TBE6}. Presynaptic cell membrane {ECO:0000250 UniProtKB:Q2TBE6}. Synapse, synaptosome {ECO:0000250 UniProtKB:Q2TBE6}. Mitochondrion {ECO:0000250 UniProtKB:Q2TBE6}. Endosome. Cytoplasmic vesicle. Membrane; Lipid-anchor. Cell membrane. Perikaryon {ECO:0000250 UniProtKB:Q2TBE6}. Cell projection, neuron projection {ECO:0000250 UniProtKB:Q2TBE6}. Note=Found in subdomains of the plasma membrane termed non-caveolar membrane rafts. Transported from neuronal cell body to neuron projections and neurite tips in a BLOC-1- and AP-3- complexes-dependent manner. {ECO:0000250 UniProtKB:Q2TBE6}
Tissue location	Widely expressed. Highest expression is observed in kidney, brain, heart, skeletal muscle, and placenta and lowest expression is observed in colon, thymus, and small intestine.
Preparation and Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

IMAGES



WB (Western Blot)
PI4K2A Antibody (C-term) western blot analysis in CEM cell line lysates (35ug/lane). This demonstrates the PI4K2A antibody detected the PI4K2A protein (arrow).



WB (Western Blot)
All lanes : Anti-PI4K2A Antibody (C-term) at 1:2000 dilution Lane 1: HepG2 whole cell lysate Lane 2: Hela whole cell lysate Lane 3: HL-60 whole cell lysate Lysates/proteins at 20 ug per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 54 kDa Blocking/Dilution buffer: 5% NFD/MTBST.

ADDITIONAL INFORMATION

Related Product Information for anti-PI4K2A antibody	Phosphatidylinositol polyphosphates (PtdInsPs) are centrally involved in many biologic processes, ranging from cell growth and organization of the actin cytoskeleton to endo- and exocytosis. PI4KII phosphorylates PtdIns at the D-4 position, an essential step in the biosynthesis of PtdInsPs (Barylko et al., 2001 [PubMed 11244087]).
Product Categories/Family for anti-PI4K2A antibody	Signal Transduction
References	Li, J., et al. Oncogene 29(17):2550-2559(2010) Qin, Y., et al. J. Biol. Chem. 284(34):22544-22548(2009) Salazar, G., et al. J. Biol. Chem. 284(3):1790-1802(2009) Craigie, B., et al. Mol. Biol. Cell 19(4):1415-1426(2008) Olsen, J.V., et al. Cell 127(3):635-648(2006)

NCBI AND UNIPROT INFORMATION

NCBI GI #	13559514
NCBI GeneID	55361
NCBI Accession #	NP_060895.1
NCBI GenBank Nucleotide #	NM_018425.3
UniProt Accession #	Q9BTU6; Q9NSG8; D3DR59
Molecular Weight	54022
NCBI Official Full Name	phosphatidylinositol 4-kinase type 2-alpha
NCBI Official Synonym Full Names	phosphatidylinositol 4-kinase type 2 alpha
NCBI Official Symbol	PI4K2A
NCBI Official Synonym Symbols	PI4KII; PIK42A
NCBI Protein Information	phosphatidylinositol 4-kinase type 2-alpha
UniProt Protein Name	Phosphatidylinositol 4-kinase type 2-alpha
UniProt Gene Name	PI4K2A
UniProt Entry Name	P4K2A_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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/polyclonal/pi4k2a-antibody-western-blot-elisa/288654>