10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Anti-PI4KII Alpha (RABBIT) Antibody

PI4KII Alpha Antibody
Catalog # ASR5735

Specification

Anti-PI4KII Alpha (RABBIT) Antibody - Product Information

Host	**Rabbit**
Conjugate	**Unconjugated**
Target Species	**Human**
Reactivity	**Human**
Clonality	**Polyclonal**
Application	**WB, IHC, E, I, LCI**
Application Note	**Anti-PI4KII alpha antibody has been tested by ELISA, and western blot and is useful for Immunohistochemistry. Specific conditions for reactivity should be optimized by the end user. Expect a band approximately ~54kDa corresponding to the appropriate cell lysate or extract.**
Physical State	**Liquid (sterile filtered)**
Buffer	**0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2**
Immunogen	**Anti-PI4KII alpha affinity purified antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide at the N-terminal of human P4K2A protein.**
Stabilizer	**50% (v/v) Glycerol**

Anti-PI4KII Alpha (RABBIT) Antibody - Additional Information

Gene ID 55361

Purity
Anti-PI4KII alpha was affinity purified from monospecific antiserum by immunoaffinity chromatography. A BLAST analysis was used to suggest cross-reactivity with human, mouse, and rat based on 100% sequence homology. Cross-reactivity with PI4KII alpha from other sources has not been determined.

Storage Condition
Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.

Precautions Note
This product is for research use only and is not intended for therapeutic or diagnostic applications.

Anti-PI4KII Alpha (RABBIT) Antibody - Protein Information

Name PI4K2A

Function
Membrane-bound phosphatidylinositol-4 kinase (PI4-kinase) that catalyzes the phosphorylation of phosphatidylinositol (PI) to phosphatidylinositol 4-phosphate (PI4P), a lipid that plays important roles in endocytosis, Golgi function, protein sorting and membrane trafficking and is required for prolonged survival of neurons. Besides, phosphorylation of phosphatidylinositol (PI) to phosphatidylinositol 4- phosphate (PI4P) is the first committed step in the generation of phosphatidylinositol 4,5-bisphosphate (PIP2), a precursor of the second messenger inositol 1,4,5-trisphosphate (InsP3).

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. Endosome membrane. 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

Anti-PI4KII Alpha (RABBIT) Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Anti-PI4KII Alpha (RABBIT) Antibody - Images

Anti-PI4KII Alpha (RABBIT) Antibody - Background

PI4KII alpha contributes to the overall PI4-kinase activity of the cell. It contributes to the production of InsP3 in stimulated cells. A member of PI3/PI4-kinase family, PI4KII alpha is widely expressed with the highest amount of expression in the kidney, brain, heart, skeletal muscle, and placenta. It is associated with the BLOC-1 and AP-3 complexes. Anti-PI4KII alpha antibody is ideal for investigators interested in Kinase and Phosphatase Antibodies.