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PI 4 Kinase type 2 beta antibody (C-term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP8033b

Specification

PI 4 Kinase type 2 beta antibody (C-term) - Product Information

Application	**WB,E**
Primary Accession	Q8TCG2
Other Accession	NP_060793
Reactivity	**Human, Mouse**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Antigen Region	**305-336**

PI 4 Kinase type 2 beta antibody (C-term) - Additional Information

Gene ID 55300

Other Names
Phosphatidylinositol 4-kinase type 2-beta, Phosphatidylinositol 4-kinase type II-beta, PI4KII-BETA, PI4K2B

Target/Specificity
This PI 4 Kinase type 2 beta antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 305-336 amino acids from the C-terminal region of human PI 4 Kinase type 2 beta.

Dilution
WB~~1:2000

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.

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.

Precautions
PI 4 Kinase type 2 beta antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

PI 4 Kinase type 2 beta antibody (C-term) - Protein Information

Name PI4K2B

Function Together with PI4K2A and the type III PI4Ks (PIK4CA and PIK4CB) it contributes to the

overall PI4-kinase activity of the cell (PubMed:11923287, PubMed:12324459). This contribution may be especially significant in plasma membrane, endosomal and Golgi compartments (PubMed:11923287, PubMed:12324459). The phosphorylation of phosphatidylinositol (PI) to 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) (PubMed:11923287, PubMed:12324459). Contributes to the production of InsP3 in stimulated cells and is likely to be involved in the regulation of vesicular trafficking.

Cellular Location
Cytoplasm, cytosol. Golgi apparatus membrane; Peripheral membrane protein. Endoplasmic reticulum membrane. Cell membrane. Early endosome membrane. Note=Mainly cytosolic, association with membranes of the Golgi, endoplasmic and plasma membrane is stimulated by active RAC1 (PubMed:12324459). Association with early endosomes has not been confirmed (PubMed:11923287, PubMed:12324459).

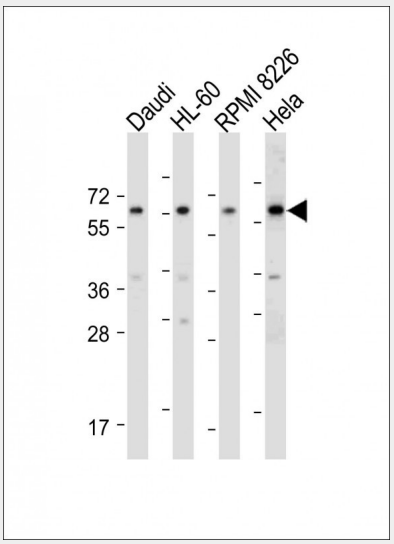
Tissue Location
Widely expressed..

PI 4 Kinase type 2 beta antibody (C-term) - 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

PI 4 Kinase type 2 beta antibody (C-term) - Images



All lanes : Anti-PI 4 Kinase type 2 beta antibody (C-term) at 1:2000 dilution Lane 1: Daudi whole cell lysate Lane 2: HL-60 whole cell lysate Lane 3: RPMI 8226 whole cell lysate Lane 4: Hela whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 55 kDa Blocking/Dilution buffer: 5%

NFDM/TBST.

PI 4 Kinase type 2 beta antibody (C-term) - Background

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.

PI 4 Kinase type 2 beta antibody (C-term) - References

Wei, Y.J., et al., J. Biol. Chem. 277(48):46586-46593 (2002).
Mora, S., et al., J. Biol. Chem. 277(30):27494-27500 (2002).
Balla, A., et al., J. Biol. Chem. 277(22):20041-20050 (2002).