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Polyclonal Antibody to PI4KCB (C-term) - Purified

Alternate names: "phosphatidylinositol 4-kinase, PI4KB", beta polypeptide, catalytic

Catalog No.: AP14955PU-N

Quantity: 0.1 mg

Concentration: 0.25 mg/ml

Background: Phosphoinositides are pivotal precursors to important second messengers and as signaling and molecules. Phosphatidylinositol 4-kinases (PI4Ks) are are crucial regulators of the phosphoinsitide cascade. PI4KCB is a wortmannin-sensitive PI 4-kinase responsible for regulating the synthesis of agonist-sensitive pools of polyphosphoinositides. The cellular reservoir of PI4KCB is predominantly cytosolic, however the protein is is activated strongly by recruitment to the membrane to stimulate phosphatidylinositol 4,5-bisphosphate synthesis at the plasma membrane. PI4KCB contains an N-terminal lipid kinase unique domain, which is shared by members of both the PI3 kinase and PI4 kinase families, and a C-terminal catalytic domain, which defines this protein as a member of a much larger protein/lipid kinase family.

Uniprot ID: Q5VWB9

NCBI: 9606

GeneID: 5298

Host / Isotype: Rabbit / Ig

Immunogen: This antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide selected from the C-terminal region of human PI4KCB.

Format:
State: Liquid purified Ig
Purification: Protein G column, eluted with high and low pH buffers and neutralized immediately, followed by dialysis against PBS
Buffer System: PBS with 0.09% (W/V) sodium azide

Applications:
ELISA: 1/1,000.
Immunohistochemistry: 1/50 - 1/100.
Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

Specificity:
This antibody reacts to PI4KCB.
Species: Human.
Other species not tested.

Storage:
Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer.
Avoid repeated freezing and thawing.
Shelf life: one year from despatch.

Caution: This product is for research use only. Not for use in diagnostic or therapeutic procedures.

General Readings:

1. Wei, Y.J., et al., J. Biol. Chem. 277(48):46586-46593 (2002).
2. Balla, A., et al., J. Biol. Chem. 277(22):20041-20050 (2002).
3. Sorensen, S.D., et al., Mol. Pharmacol. 53(5):827-836 (1998).
4. Saito, T., et al., DNA Res. 4(4):301-305 (1997).
5. Suzuki, K., et al., DNA Res. 4(4):273-280 (1997).

Pictures:

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.