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INPP4B Antibody (Center) Blocking Peptide

Synthetic peptide
Catalog # BP8902c

Specification

INPP4B Antibody (Center) Blocking Peptide - Product Information

Primary Accession O15327

INPP4B Antibody (Center) Blocking Peptide - Additional Information

Gene ID 8821

Other Names
Type II inositol 3, 4-bisphosphate 4-phosphatase, Inositol polyphosphate 4-phosphatase type II, INPP4B

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP8902c was selected from the Center region of human INPP4B. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

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

INPP4B Antibody (Center) Blocking Peptide - Protein Information

Name INPP4B

Function
Catalyzes the hydrolysis of the 4-position phosphate of phosphatidylinositol 3,4-bisphosphate, inositol 1,3,4-trisphosphate and inositol 3,4-trisphosphate (PubMed:24070612, PubMed:24591580). Plays a role in the late stages of macropinocytosis by dephosphorylating phosphatidylinositol 3,4-bisphosphate in membrane ruffles (PubMed:24591580). The lipid phosphatase activity is critical for tumor suppressor function. Antagonizes the PI3K-AKT/PKB signaling pathway by dephosphorylating phosphoinositides and thereby modulating cell cycle progression and cell survival (PubMed:19647222, PubMed:24070612).

Tissue Location
Widely expressed with highest levels occurring in the skeletal muscle and heart.

INPP4B Antibody (Center) Blocking Peptide - Protocols

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

- Blocking Peptides

INPP4B Antibody (Center) Blocking Peptide - Images

INPP4B Antibody (Center) Blocking Peptide - Background

INPP4B catalyzes the hydrolysis of the 4-position phosphate of phosphatidylinositol 3,4-bisphosphate, inositol 1,3,4-trisphosphate and inositol 1,4-bisphosphate.

INPP4B Antibody (Center) Blocking Peptide - References

Norris F.A., et.al., J. Biol. Chem. 272:23859-23864(1997).