

PIP4K2C Antibody (N-term)

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP20635a

Product Information

Application	WB, E
Primary Accession	Q8TBX8
Reactivity	Human, Rat, Mouse
Predicted	Bovine, Canine, Rabbit
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB47821
Calculated MW	47300

Additional Information

Gene ID	79837
Other Names	Phosphatidylinositol 5-phosphate 4-kinase type-2 gamma, Phosphatidylinositol 5-phosphate 4-kinase type II gamma, PI(5)P 4-kinase type II gamma, PIP4KII-gamma, PIP4K2C, PIP5K2C
Target/Specificity	This PIP4K2C antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 23-57amino acids from the N-terminal region of human PIP4K2C.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
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	PIP4K2C Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	PIP4K2C (HGNC:23786)
Synonyms	PIP5K2C
Function	Phosphatidylinositol 5-phosphate 4-kinase with low enzymatic activity. May

be a GTP sensor, has higher GTP-dependent kinase activity than ATP-dependent kinase activity. PIP4Ks negatively regulate insulin signaling through a catalytic-independent mechanism. They interact with PIP5Ks and suppress PIP5K-mediated PtdIns(4,5)P₂ synthesis and insulin- dependent conversion to PtdIns(3,4,5)P₃ (PubMed:[31091439](#)).

Cellular Location

Endoplasmic reticulum {ECO:0000250|UniProtKB:O88370}. Cytoplasm {ECO:0000250|UniProtKB:O88370}

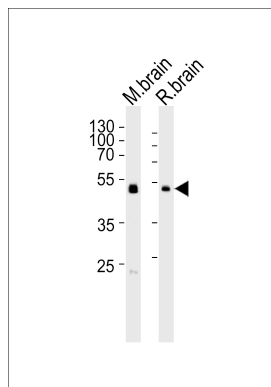
Background

May play an important role in the production of Phosphatidylinositol bisphosphate (PIP₂), in the endoplasmic reticulum (By similarity).

References

Ota T.,et al.Nat. Genet. 36:40-45(2004).
Scherer S.E.,et al.Nature 440:346-351(2006).
Mural R.J.,et al.Submitted (JUL-2005) to the EMBL/GenBank/DDBJ databases.
Daub H.,et al.Mol. Cell 31:438-448(2008).
Gauci S.,et al.Anal. Chem. 81:4493-4501(2009).

Images



Western blot analysis of lysates from mouse brain and rat brain tissue lysate(from left to right), using PIP4K2C Antibody (N-term)(Cat. #AP20635a). AP20635a was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:5000 dilution was used as the secondary antibody. Lysates at 35ug per lane.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.