

**DATASHEET**

**PIP4K2 beta Rabbit Polyclonal Antibody**

CAT. NO. APA13213

**KEY FEATURES**

Target	PIP4K2 beta	Source / Host	Rabbit
Reactivity	Human	Clonality	Polyclonal
Applications	WB, IHC	Conjugation	Unconjugated
Form / Buffer	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.		Storage at-20°C

**BACKGROUND**

Participates in the biosynthesis of phosphatidylinositol 4,5-bisphosphate . Preferentially utilizes GTP, rather than ATP, for PI(5)P phosphorylation and its activity reflects changes in direct proportion to the physiological GTP concentration . Its GTP-sensing activity is critical for metabolic adaptation . PIP4Ks negatively regulate insulin signaling through a catalytic-independent mechanism. They interact with PIP5Ks and suppress PIP5K-mediated PtdIns(4,5)P<sub>2</sub> synthesis and insulin-dependent conversion to PtdIns(3,4,5)P<sub>3</sub> .

**APPLICATION**

To ensure optimal assay performance, AREX recommends conducting reagent titration tailored to each testing system for optimal detection results.

WB	1:500 - 1:2000
IHC	1:50 - 1:200

\*Results are sample-specific. Please refer to your local assay conditions and test parameters for reference.

**PRODUCT OVERVIEW**

Description	Rabbit polyclonal antibody to PIP4K2 beta
Specificity	Recognizes endogenous levels of PIP4K2 beta protein.
Antibody Type	Primary antibody
Immunogen	Recombinant fusion protein of human PIP4K2 beta
Purification	The antibody was purified by immunogen affinity chromatography.
Molecular Weight	Predicted: 47 kD; Observed: 47 kD
Form/Buffer	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Alternative Names	PIP5K2B; Phosphatidylinositol 5-phosphate 4-kinase type-2 beta; 1-phosphatidylinositol 5-phosphate 4-kinase 2-beta; Diphosphoinositide kinase 2-beta; Phosphatidylinositol 5-phosphate 4-kinase type II beta; PI(5)P 4-kinase type II beta; PIP4KII-beta; PtdIns(5)P-4-kinase isoform 2-beta
Gene Symbol	PIP4K2B
Entrez Gene	8396(Human); 108083(Mouse); 89812(Rat)
SwissProt	P78356(Human); Q80XI4(Mouse); O88377(Rat)

\*AREX continuously optimizes our products. Webpage content may not reflect the latest updates. For inquiries, please contact [info@arexbio.com](mailto:info@arexbio.com) or your local distributor.

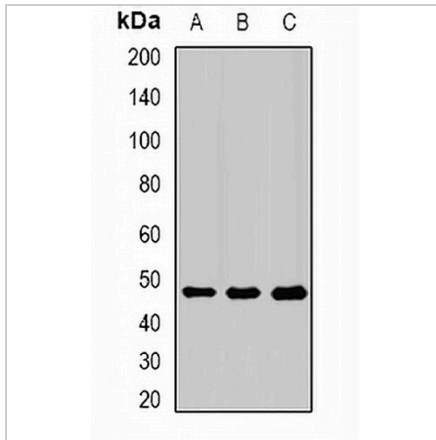
\*Clone Number, Reactivity, Source/Host and Clonality can be found in the product name and Key Features section above.

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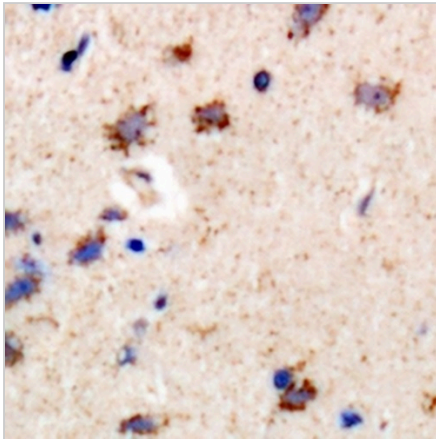
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**DATA**



Western blot analysis of PIP4K2 beta expression in Hela (A), A549 (B), mouse spleen (C) whole cell lysates. (Predicted band size: 47 kD; Observed band size: 47 kD)



Immunohistochemical analysis of PIP4K2 beta staining in rat brain formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

**STORAGE**

Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.

**NOTE**

For Research Use Only. Not for diagnostic, therapeutics, prophylactic or in vivo use.