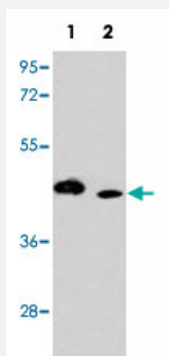


ITPKA polyclonal antibody

Catalog # PAB4052

Size 400 uL

Applications



Western Blot

Western blot analysis of ITPKA polyclonal antibody (Cat # PAB4052) in (1) K-562 cell line and (2) mouse lung tissue lysates (35 ug/lane).

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of ITPKA.
Immunogen	A synthetic peptide (conjugated with KLH) corresponding to C-terminus of human ITPKA.
Host	Rabbit
Reactivity	Human, Mouse
Form	Liquid
Purification	Protein G purification
Recommend Usage	ELISA (1:1000) Western Blot (1:50-100) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (0.09% sodium azide)
Storage Instruction	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.

Note

This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot

Western blot analysis of ITPKA polyclonal antibody (Cat # PAB4052) in (1) K-562 cell line and (2) mouse lung tissue lysates (35 ug/lane).

- Enzyme-linked Immunoabsorbent Assay

Gene Info — ITPKA

Entrez GeneID	3706
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Protein Accession#	NP_002211
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Gene Name	ITPKA
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Gene Alias	IP3KA
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Gene Description	inositol 1,4,5-trisphosphate 3-kinase A
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Omim ID	147521
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Gene Ontology	Hyperlink
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Gene Summary	Regulates inositol phosphate metabolism by phosphorylation of second messenger inositol 1,4,5-trisphosphate to Ins(1,3,4,5)P ₄ . The activity of the inositol 1,4,5-trisphosphate 3-kinase is responsible for regulating the levels of a large number of inositol polyphosphates that are important in cellular signaling. Both calcium/calmodulin and protein phosphorylation mechanisms control its activity. It is also a substrate for the cyclic AMP-dependent protein kinase, calcium/calmodulin-dependent protein kinase II, and protein kinase C in vitro. ITPKA and ITPKB are 68% identical in the C-terminus region. [provided by RefSeq]
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Other Designations	1D-myo-inositol-trisphosphate 3-kinase A
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Publication Reference

- [Structure of a human inositol 1,4,5-trisphosphate 3-kinase: substrate binding reveals why it is not a phosphoinositide 3-kinase.](#)

Gonzalez B, Schell MJ, Letcher AJ, Veprintsev DB, Irvine RF, Williams RL.

Molecular Cell 2004 Sep; 15(5):689.

- [Inositol 1,4,5-trisphosphate 3-kinase A associates with F-actin and dendritic spines via its N terminus.](#)

Schell MJ, Erneux C, Irvine RF.

The Journal of Biological Chemistry 2001 Oct; 276(40):37537.

Application: IF, IP, WB-Ti, Rat, Brain

Pathway

- [Calcium signaling pathway](#)
- [Inositol phosphate metabolism](#)
- [Metabolic pathways](#)
- [Phosphatidylinositol signaling system](#)

Disease

- [Disease Progression](#)
- [Disease Susceptibility](#)
- [HIV Infections](#)