

ITPKA Antibody (C-term)
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP8166b**Specification**

ITPKA Antibody (C-term) - Product Information

Application	WB,E
Primary Accession	P23677
Other Accession	NP_002211
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	51009
Antigen Region	345-375

ITPKA Antibody (C-term) - Additional Information**Gene ID** 3706**Other Names**

Inositol-trisphosphate 3-kinase A, Inositol 1, 5-trisphosphate 3-kinase A, IP3 3-kinase A, IP3K A, InsP 3-kinase A, ITPKA

Target/Specificity

This ITPKA antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 345-375 amino acids from the C-terminal region of human ITPKA.

Dilution

WB~~1:1000

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

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

ITPKA Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

ITPKA Antibody (C-term) - Protein Information**Name** ITPKA ([HGNC:6178](#))**Function** Catalyzes the phosphorylation of 1D-myo-inositol 1,4,5- trisphosphate (InsP3) into

1D-myo-inositol 1,3,4,5-tetrakisphosphate and participates to the regulation of calcium homeostasis.

Cellular Location

Cytoplasm, cytoskeleton

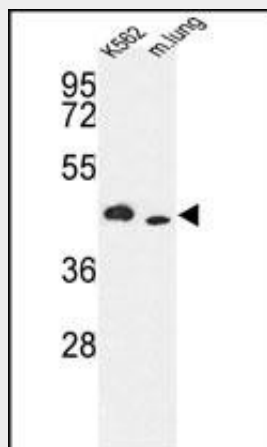
Tissue Location

Expressed in brain..

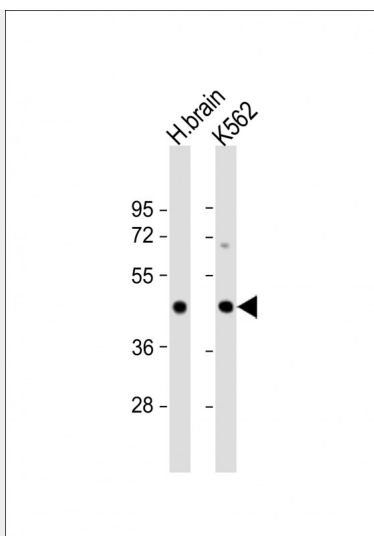
ITPKA Antibody (C-term) - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

ITPKA Antibody (C-term) - Images

Western blot analysis of hITPKA-E360 (Cat.# AP8166b) in K562 cell line and mouse lung tissue lysates (35ug/lane). ITPKA (arrow) was detected using the purified Pab.



All lanes : Anti-ITPKA Antibody (C-term) at 1:1000 dilution Lane 1: human brain lysate Lane 2: K562 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 51 kDa Blocking/Dilution buffer: 5% NFDm/TBST.

ITPKA Antibody (C-term) - Background

ITPKA regulates inositol phosphate metabolism by phosphorylation of second messenger inositol 1,4,5-trisphosphate to Ins(1,3,4,5)P₄. 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.

ITPKA Antibody (C-term) - References

- Gonzalez, B., et al., Mol. Cell 15(5):689-701 (2004).
- Mishra, J., et al., Biophys. J. 83(3):1298-1316 (2002).
- Schell, M.J., et al., J. Biol. Chem. 276(40):37537-37546 (2001).
- Communi, D., et al., EMBO J. 16(8):1943-1952 (1997).
- Woodring, P.J., et al., J. Biol. Chem. 272(48):30447-30454 (1997).