

ITPKA Antibody (N-term)

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP8166a

Specification

ITPKA Antibody (N-term) - Product Information

Application WB,E **Primary Accession** P23677 Other Accession NP 002211 Reactivity Human Host **Rabbit** Clonality **Polyclonal** Isotype Rabbit IgG Calculated MW 51009 Antigen Region 1-30

ITPKA Antibody (N-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 1-30 amino acids from the N-terminal region of human ITPKA.

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

ITPKA Antibody (N-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 LocationCytoplasm, cytoskeleton

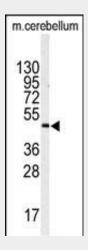
Tissue Location Expressed in brain...

ITPKA Antibody (N-term) - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- <u>Immunohistochemistry</u>
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

ITPKA Antibody (N-term) - Images

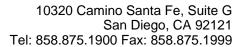


Western blot analysis of anti-ITPKA Antibody (N-term) (Cat.#AP8166a) in mouse cerebellum tissue lysates (35ug/lane). ITPKA(arrow) was detected using the purified Pab.

ITPKA Antibody (N-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 (N-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).