

**ITPKA Antibody (N-term)**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP8166a**

**Specification**

**ITPKA Antibody (N-term) - Product Information**

|                   |                           |
|-------------------|---------------------------|
| Application       | <b>WB,E</b>               |
| Primary Accession | <a href="#">P23677</a>    |
| Other Accession   | <a href="#">NP_002211</a> |
| Reactivity        | <b>Human</b>              |
| Host              | <b>Rabbit</b>             |
| Clonality         | <b>Polyclonal</b>         |
| Isotype           | <b>Rabbit Ig</b>          |
| Calculated MW     | <b>51009</b>              |
| Antigen Region    | <b>1-30</b>               |

**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

**Format**

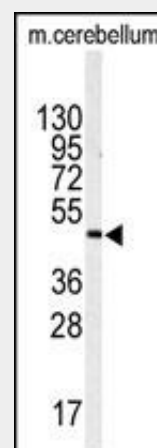
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

**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.



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.

**ITPKA Antibody (N-term) - Protein Information****Name** ITPKA

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).

**ITPKA Antibody (N-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](#)