

IPMK Antibody (aa311-360)
Rabbit Polyclonal Antibody
Catalog # ALS16712**Specification**

IPMK Antibody (aa311-360) - Product Information

Application	IHC, WB
Primary Accession	Q8NFU5
Other Accession	253430
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	47222

IPMK Antibody (aa311-360) - Additional Information**Gene ID** 253430**Other Names**

IPMK, IMPK

Target/Specificity

IPMK Antibody detects endogenous levels of total IPMK protein.

Reconstitution & StoragePBS (without Mg²⁺, Ca²⁺), pH 7.4, 150 mM sodium chloride, 0.02% sodium azide, 50% glycerol.
Store at -20°C for up to one year.**Precautions**

IPMK Antibody (aa311-360) is for research use only and not for use in diagnostic or therapeutic procedures.

IPMK Antibody (aa311-360) - Protein Information**Name** IPMK**Synonyms** IMPK {ECO:0000303|PubMed:29883610}**Function**

Inositol phosphate kinase with a broad substrate specificity (PubMed:12027805, PubMed:12223481, PubMed:28882892, PubMed:30420721, PubMed:30624931).

Phosphorylates inositol 1,4,5-trisphosphate (Ins(1,4,5)P₃) first to inositol 1,3,4,5-tetrakisphosphate and then to inositol 1,3,4,5,6-pentakisphosphate (Ins(1,3,4,5,6)P₅) (PubMed:12027805).

[12027805](http://www.uniprot.org/citations/12027805), PubMed: [12223481](http://www.uniprot.org/citations/12223481), PubMed: [28882892](http://www.uniprot.org/citations/28882892), PubMed: [30624931](http://www.uniprot.org/citations/30624931)). Phosphorylates inositol 1,3,4,6-tetrakisphosphate (Ins(1,3,4,6)P4) (PubMed: [12223481](http://www.uniprot.org/citations/12223481)). Phosphorylates inositol 1,4,5,6-tetrakisphosphate (Ins(1,4,5,6)P4) (By similarity). Phosphorylates glycerol-3-phospho-1D- myo-inositol 4,5-bisphosphate to glycerol-3-phospho-1D-myo-inositol 3,4,5-trisphosphate (PubMed: [30420721](http://www.uniprot.org/citations/30420721) target="_blank">30420721, PubMed: [28882892](http://www.uniprot.org/citations/28882892) target="_blank">28882892). Plays an important role in MLKL-mediated necroptosis via its role in the biosynthesis of inositol pentakisphosphate (InsP5) and inositol hexakisphosphate (InsP6). Binding of these highly phosphorylated inositol phosphates to MLKL mediates the release of an N-terminal auto- inhibitory region, leading to activation of the kinase. Essential for activated phospho-MLKL to oligomerize and localize to the cell membrane during necroptosis (PubMed: [29883610](http://www.uniprot.org/citations/29883610) target="_blank">29883610). Required for normal embryonic development, probably via its role in the biosynthesis of inositol 1,3,4,5,6-pentakisphosphate (Ins(1,3,4,5,6)P5) and inositol hexakisphosphate (InsP6) (By similarity).

Cellular Location

Nucleus.

Tissue Location

Ubiquitous, with the highest expression in skeletal muscle, liver, placenta, lung, peripheral blood leukocytes, kidney, spleen and colon.

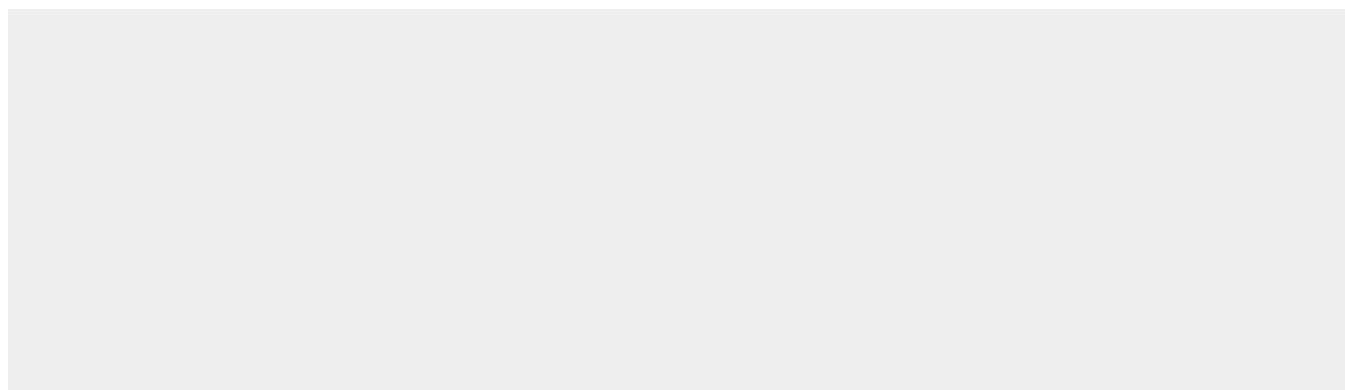
Volume

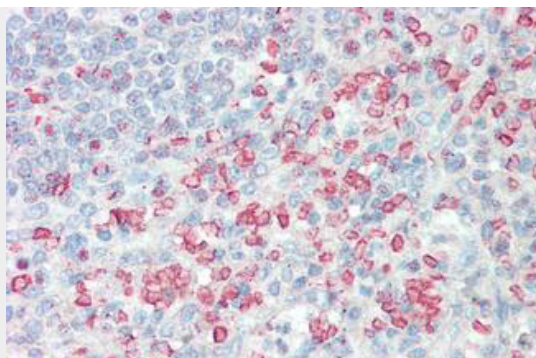
50 µl

IPMK Antibody (aa311-360) - Protocols

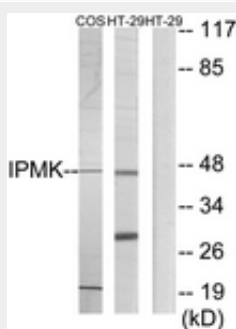
Provided below are standard protocols that you may find useful for product applications.

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

IPMK Antibody (aa311-360) - Images



Anti-IPMK antibody IHC staining of human spleen.



Western blot of extracts from HT-29/COS7 cells, using IPMK Antibody.

IPMK Antibody (aa311-360) - Background

Inositol phosphate kinase with a broad substrate specificity. Has a preference for inositol 1,4,5-trisphosphate (Ins(1,4,5)P₃) and inositol 1,3,4,6-tetrakisphosphate (Ins(1,3,4,6)P₄).

IPMK Antibody (aa311-360) - References

- Nalaskowski M.M., et al. *Biochem. J.* 366:549-556(2002).
Chang S.-C., et al. *J. Biol. Chem.* 277:43836-43843(2002).
Daub H., et al. *Mol. Cell* 31:438-448(2008).
Oppermann F.S., et al. *Mol. Cell. Proteomics* 8:1751-1764(2009).