

ITPKB Antibody (N-term)

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP8167a

Product Information

Application	WB, IHC-P, FC, E
Primary Accession	P27987
Other Accession	NP_002212
Reactivity	Human
Predicted	Mouse, Rat, Bovine, Canine, Rabbit
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB5362
Calculated MW	102376
Antigen Region	23-54

Additional Information

Gene ID	3707
Other Names	Inositol-trisphosphate 3-kinase B, Inositol 1, 5-trisphosphate 3-kinase B, IP3 3-kinase B, IP3K B, InsP 3-kinase B, ITPKB
Target/Specificity	This ITPKB antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 23-54 amino acids from the N-terminal region of human ITPKB.
Dilution	WB~~1:1000 IHC-P~~1:100~500 FC~~1:10~50 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	ITPKB Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	ITPKB (HGNC:6179)
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. Cytoplasm Endoplasmic reticulum

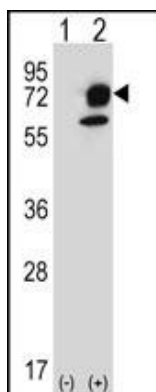
Background

ITPKB regulates inositol phosphate metabolism by phosphorylation of second messenger inositol 1,4,5-trisphosphate to Ins(1,3,4,5)P₄. The activity of this encoded protein 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.

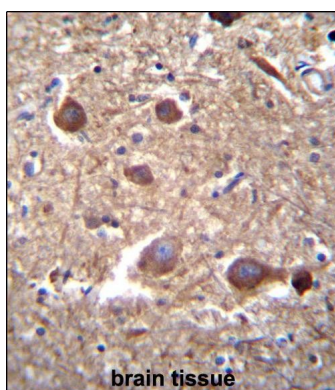
References

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Erneux, C., et al., Genomics 14(2):546-547 (1992).
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Images

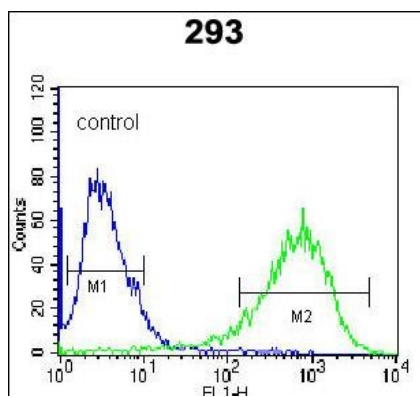


Western blot analysis of ITPKB (arrow) using rabbit polyclonal ITPKB Antibody (R38) (Cat. #AP8167a). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected (Lane 2) with the ITPKB gene.



ITPKB Antibody (N-term) (Cat. #AP8167a) immunohistochemistry analysis in formalin fixed and paraffin embedded human brain tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of ITPKB Antibody (N-term) for immunohistochemistry. Clinical relevance has not been evaluated.

ITPKB Antibody (N-term) (Cat. #AP8167a) flow cytometric analysis of 293 cells (right histogram) compared to a negative control cell (left histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.



Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.