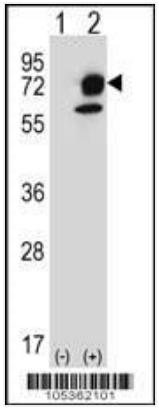
ITPKB Antibody – Rabbit Polyclonal

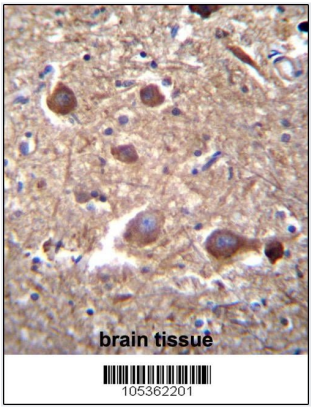
PRODUCT OVERVIEW

Product Name	ITPKB, Polyclonal Antibody
Full Product Name	ITPKB, NT (ITPKB, Inositol-trisphosphate 3-kinase B, Inositol 1,4,5-trisphosphate 3-kinase B) (FITC)
Product Gene Name	anti-ITPKB antibody
Product Synonym Names	ITPKB; Inositol-trisphosphate 3-kinase B; Inositol 1,4,5-trisphosphate 3-kinase B
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Fluorescein Isothiocyanate (FITC).
Purity/Purification	Purified by Protein G Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: FITC conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	67,387 Da
OMIM	147522
3D Structure	ModBase 3D Structure for P27987
Immunogen	ITPKB antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 31~61 amino acids from the N-terminal region of human ITPKB.
Conjugate	FITC
Note	Preservative Free
Special Handling	Light sensitive
Product Categories/Family for anti-ITPKB antibody	Antibodies; Protein Kinases
Applications Tested/Suitable for anti-ITPKB antibody	Flow Cytometry (FC/FACS), FLISA, Immunohistochemistry (IHC), Western Blot (WB)
Application Notes for anti-ITPKB antibody	FC/FACS: 1:10-50 FLISA: 1:1,000 IHC: 1:10-50 WB: 1:50-100 Applications are based on unconjugated antibody.
Related Product Information for anti-ITPKB antibody	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.
Product References and Citations for anti-ITPKB antibody	Dewaste, V., et al., Biochem. Biophys. Res. Commun. 291(2):400-405 (2002). Woodring, P.J., et al., J. Biol. Chem. 272(48):30447-30454 (1997). Erneux, C., et al., Genomics 14(2):546-547 (1992). Takazawa, K., et al., Biochem. J. 272(1):107-112 (1990). Takazawa, K., et al., Biochem. J. 278 (PT 3), 883-886 (1991) (): ().

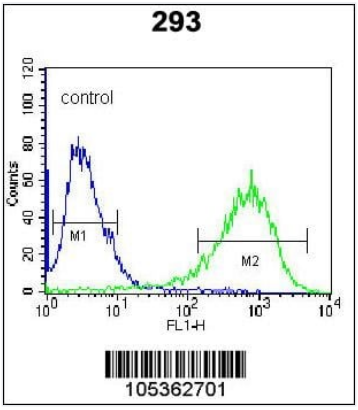
Other Notes	Small volumes of anti-ITPKB antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for ITPKB purchase	MBS6311425 is an antibody targeting ITPKB. Also known as ITPKB, NT (ITPKB, Inositol-trisphosphate 3-kinase B, Inositol 1,4,5-trisphosphate 3-kinase B) (FITC). Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-ITPKB antibody
Western blot analysis of ITPKB (arrow) using rabbit polyclonal ITPKB Antibody (R38). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected (Lane 2) with the ITPKB gene.



Immunohistochemistry (IHC) of anti-ITPKB antibody
ITPKB Antibody (N-term) 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.



Flow Cytometry (FC/FACS) of anti-ITPKB antibody
ITPKB Antibody (N-term) 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.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ITPKB. It may not necessarily be applicable to this product.

NCBI GI #	194272161
NCBI GeneID	3707
NCBI Accession #	NP_002212
UniProt Primary Accession #	P27987
UniProt Secondary Accession #	Q5VWL9; Q5VWM0; Q96BZ2; Q96JS1; Q9UH47
UniProt Related Accession #	P27987
GenBank Nucleotide #	NM_002221.3
NCBI Official Full Name	inositol-trisphosphate 3-kinase B

NCBI Official Synonym Full Names	inositol-trisphosphate 3-kinase B
NCBI Official Symbol	ITPKB
NCBI Official Synonym Symbols	IP3K; IP3KB; PIG37; IP3K-B; IP3-3KB
UniProt Protein Name	Inositol-trisphosphate 3-kinase B
UniProt Synonym Protein Names	Inositol 1,4,5-trisphosphate 3-kinase B
Protein Family	Inositol-trisphosphate 3-kinase
UniProt Gene Name	ITPKB
UniProt Synonym Gene Names	IP3 3-kinase B; IP3K B
UniProt Entry Name	IP3KB_HUMAN
NCBI Protein Information	inositol-trisphosphate 3-kinase B
NCBI Summary for ITPKB	The protein encoded by this protein 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. [provided by RefSeq, Jul 2008]
UniProt Comments for ITPKB	ITPKB: The protein encoded by this protein 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. [provided by RefSeq, Jul 2008] Protein type: Motility/polarity/chemotaxis; EC 2.7.1.127; Carbohydrate Metabolism - inositol phosphate; Kinase, lipid Chromosomal Location of Human Ortholog: 1q42.13 Cellular Component: cytosol Molecular Function: calmodulin binding; protein binding; inositol trisphosphate 3-kinase activity; ATP binding Biological Process: cell surface receptor linked signal transduction; inositol phosphate metabolic process; MAPKKK cascade; positive regulation of Ras protein signal transduction; signal transduction; positive regulation of alpha-beta T cell differentiation; positive thymic T cell selection
Research Articles on ITPKB	**1.** ITPKB is increased in Alzheimer's brain three-fold in the cerebral cortex of most patients with Alzheimer's disease compared with control subjects and accumulates in dystrophic neurites associated with amyloid plaques.
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