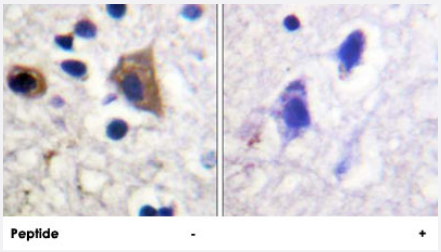
PIKFYVE polyclonal antibody

Catalog # PAB17315 Size 100 ug

Applications



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemistry analysis of paraffin-embedded human brain tissue using PIKFYVE polyclonal antibody (Cat # PAB17315).
Peptide "+" means "with peptide blocking".

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of PIKFYVE.
Immunogen	A synthetic peptide corresponding to internal of human PIKFYVE.
Host	Rabbit
Reactivity	Human, Mouse, Rat
Specificity	This detects endogenous levels of total PIKFYVE protein.
Form	Liquid
Recommend Usage	Immunohistochemistry (1:50-1:100) ELISA (1:5000) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH 7.4 (150mM NaCl, 0.02% sodium azide, 50% glycerol)
Storage Instruction	Store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

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Gene Info — PIP5K3

Entrez GeneID	200576
Protein Accession#	Q9Y2I7
Gene Name	PIP5K3
Gene Alias	CFD, FAB1, KIAA0981, MGC40423, PIKFYVE, PIP5K
Gene Description	phosphatidylinositol-3-phosphate/phosphatidylinositol 5-kinase, type III
Omim ID	121850 609414
Gene Ontology	Hyperlink
Gene Summary	PIP5K3 belongs to a large family of lipid kinases that alter the phosphorylation status of intracellular phosphatidylinositol. Signaling by phosphorylated species of phosphatidylinositol regulates diverse cellular processes, including membrane trafficking and cytoskeletal reorganization (Shisheva et al., 1999 [PubMed 9858586]).[supplied by OMIM
Other Designations	1-phosphatidylinositol-4-phosphate 5-kinase|FYVE finger-containing phosphoinositide kinase|OTTHUMP00000163872|PtdIns(4)P-5-kinase|phosphatidylinositol-3-phosphate 5-kinase type III|phosphatidylinositol-4-phosphate 5-kinase, type III

Publication Reference

- Phosphatidylinositol-4-phosphate 5-kinase activity is stimulated during temperature-induced morphogenesis in Candida albicans.

  Hairfield ML, Westwater C, Dolan JW.

  Microbiology 2002 Jun; 148(Pt 6):1737.

- skittles, a Drosophila phosphatidylinositol 4-phosphate 5-kinase, is required for cell viability, germline development and bristle morphology, but not for neurotransmitter release.

  Hassan BA, Prokopenko SN, Breuer S, Zhang B, Paululat A, Bellen HJ.

  Genetics 1998 Dec; 150(4):1527.

- Complementation of growth factor receptor-dependent mitogenic signaling by a truncated type I phosphatidylinositol 4-phosphate 5-kinase.

  Davis JN, Rock CO, Cheng M, Watson JB, Ashmun RA, Kirk H, Kay RJ, Roussel MF.

  Molecular and Cellular Biology 1997 Dec; 17(12):7398.

  Application: WB-Tr, Human, COS-7 cells

Pathway

- Endocytosis
- Fc gamma R-mediated phagocytosis
- Inositol phosphate metabolism
- Metabolic pathways
- Phosphatidylinositol signaling system
- Regulation of actin cytoskeleton

Disease

- Tobacco Use Disorder