PIK3C2A polyclonal antibody (A01)

Catalog # H00005286-A01 Size 50 uL

Specification

Product Description	Mouse polyclonal antibody raised against a partial recombinant PIK3C2A.
Immunogen	PIK3C2A (NP_002636, 1577 a.a. ~ 1686 a.a) partial recombinant protein with GST tag.
Sequence	MVMHIKDLVTEDGADPNPYVKTYLLPDNHKTSKRKTKISRKTRNPTFNEMLVYSGYSKETLRQREL QLSVLSAESLRENFFLGGVTLPLKDFNLSKETVKWYQLTAATYL
Host	Mouse
Reactivity	Human
Interspecies Antigen Sequence	Mouse (98); Rat (97)
Quality Control Testing	Antibody Reactive Against Recombinant Protein.
Storage Buffer	50 % glycerol
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- ELISA

Gene Info — PIK3C2A

Entrez GeneID	5286
GeneBank Accession#	NM_002645
Protein Accession#	NP_002636
Gene Name	PIK3C2A

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Gene Alias	CPK, DKFZp686L193, MGC142218, PI3-K-C2(ALPHA), PI3-K-C2A
Gene Description	phosphoinositide-3-kinase, class 2, alpha polypeptide
Omim ID	603601
Gene Ontology	Hyperlink
Gene Summary	The protein encoded by this gene belongs to the phosphoinositide 3-kinase (PI3K) family. PI3-kinases play roles in signaling pathways involved in cell proliferation, oncogenic transformation, cell survival, cell migration, and intracellular protein trafficking. This protein contains a lipid kinase catalytic domain as well as a C-terminal C2 domain, a characteristic of class II PI3-kinases. C2 domains act as calcium-dependent phospholipid binding motifs that mediate translocation of proteins to membranes, and may also mediate protein-protein interactions. The PI3-kinase activity of this protein is not sensitive to nanomolar levels of the inhibitor wortmanin. This protein was shown to be able to be activated by insulin and may be involved in integrin-dependent signaling. [provided by RefSeq
Other Designations	C2-containing phosphatidylinositol kinase|PI3K-C2alpha

Publication Reference

- The SH3 domain of postsynaptic density 95 mediates inflammatory pain through phosphatidylinositol-3-kinase recruitment.

  Arbuckle MI, Komiyama NH, Delaney A, Coba M, Garry EM, Rosie R, Allchorne AJ, Forsyth LH, Bence M, Carlisle HJ, O'Dell TJ, Mitchell R, Fleetwood-Walker SM, Grant SG.

  EMBO Reports 2010 Jun; 11(6):473.

  Application: WB-Ti, Mouse, Hippocampal, Spinal cord samples

Pathway

- Inositol phosphate metabolism
- Metabolic pathways
- Phosphatidylinositol signaling system

Disease

- Adenocarcinoma
- Carcinoma

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- Endometrial Neoplasms
- Esophageal Neoplasms
- Genetic Predisposition to Disease
- Gingival Neoplasms
- Mandibular Neoplasms
- Mouth Neoplasms
- Prostatic Neoplasms
- Tobacco Use Disorder
- Tongue Neoplasms

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