ARG55596
anti-PIK3C2B phospho (Tyr228) antibody

Package: 100 µl
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes PIK3C2B phospho (Tyr228)
Tested Reactivity	Hu
Tested Application	WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	PIK3C2B
Species	Human
Immunogen	KLH-conjugated phosphospecific peptide corresponding to aa. 215-250 of Human PIK3C2B. (Phosphorylated at Tyr228)
Conjugation	Un-conjugated
Alternate Names	EC 2.7.1.154; PtdIns-3-kinase C2 subunit beta; PI3K-C2-beta; C2-PI3K; Phosphatidylinositol 4-phosphate 3-kinase C2 domain-containing subunit beta; Phosphoinositide 3-kinase-C2-beta

Application Instructions

Application table

Application	Dilution
WB	1:1000

Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.
Positive Control	A431 + EGF

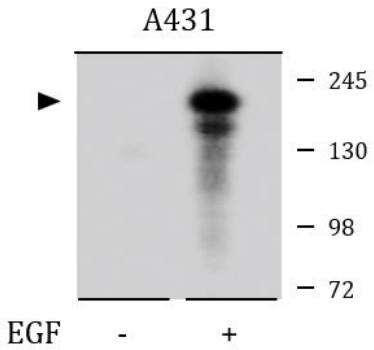
Properties

Form	Liquid
Purification	Purification with Protein A and immunogen peptide.
Buffer	PBS and 0.09% (W/V) Sodium azide
Preservative	0.09% (W/V) Sodium azide
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Database links	GeneID: 5287 Human Swiss-port # O00750 Human
Gene Symbol	PIK3C2B
Gene Full Name	phosphatidylinositol-4-phosphate 3-kinase, catalytic subunit type 2 beta
Background	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 sensitive to low nanomolar levels of the inhibitor wortmanin. The C2 domain of this protein was shown to bind phospholipids but not Ca2+, which suggests that this enzyme may function in a calcium-independent manner. [provided by RefSeq, Jul 2008]
Function	Phosphorylates PtdIns and PtdIns4P with a preference for PtdIns. Does not phosphorylate PtdIns(4,5)P2. May be involved in EGF and PDGF signaling cascades. [UniProt]
Research Area	Immune System antibody; Signaling Transduction antibody
Calculated Mw	185 kDa
Cellular Localization	Microsome. Cell membrane. Cytoplasm, cytosol. Nucleus. Endoplasmic reticulum. Note=Found mostly in the microsome, but also in the plasma membrane and cytosol. Nuclear in testis

Images



ARG55596 anti-PIK3C2B phospho (Tyr228) antibody WB image

Western blot: 35 µg of A431 cells untreated or treated with EGF. The blots were stained with ARG55596 anti-PIK3C2B phospho (Tyr228) antibody at 1:1000 dilution.