ARG63599
anti-PIK3C2A antibody

Package: 100 µg
Store at: -20°C

Summary

Product Description	Goat Polyclonal antibody recognizes PIK3C2A
Tested Reactivity	Hu
Predict Reactivity	Ms, Dog
Tested Application	IHC-P
Host	Goat
Clonality	Polyclonal
Isotype	IgG
Target Name	PIK3C2A
Species	Human
Immunogen	C-TVKWYQLTAATYL
Conjugation	Un-conjugated
Alternate Names	EC 2.7.1.154; PI3K-C2-alpha; CPK; PI3-K-C2(ALPHA); Phosphoinositide 3-kinase-C2-alpha; Phosphatidylinositol 4-phosphate 3-kinase C2 domain-containing subunit alpha; PtdIns-3-kinase C2 subunit alpha; PI3-K-C2A

Application Instructions

Application table

Application	Dilution
IHC-P	2 - 5 µg/ml

Application Note: IHC-P: Antigen Retrieval: Microwaved tissue section in Citrate buffer (pH 6.0).
* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Properties

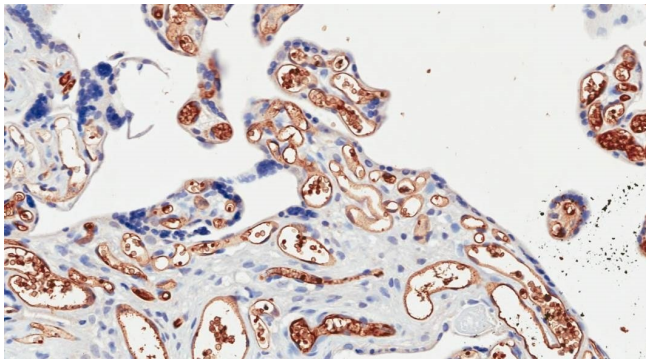
Form	Liquid
Purification	Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.
Buffer	Tris saline (pH 7.3), 0.02% Sodium azide and 0.5% BSA
Preservative	0.02% Sodium azide
Stabilizer	0.5% BSA
Concentration	0.5 mg/ml
Storage 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: 5286 Human Swiss-port # O00443 Human
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 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, Jul 2008]
Research Area	Immune System antibody; Signaling Transduction antibody
Calculated Mw	191 kDa
PTM	Phosphorylated upon insulin stimulation; which may lead to enzyme activation (By similarity). Phosphorylated on Ser-259 during mitosis and upon UV irradiation; which does not change enzymatic activity but leads to proteasomal degradation. Ser-259 phosphorylation may be mediated by CDK1 or JNK, depending on the physiological state of the cell.

Images



ARG63599 anti-PIK3C2A antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human placenta tissue. Antigen Retrieval: Microwaved tissue section in Citrate buffer (pH 6.0). The tissue section was stained with ARG63599 anti-PIK3C2A antibody at 2 µg/ml dilution followed by HRP-staining.