

ARG55715 anti-PIP4K2A antibody

Package: 100 µl
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes PIP4K2A
Tested Reactivity	Hu
Tested Application	FACS, ICC/IF, IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	PIP4K2A
Species	Human
Immunogen	KLH-conjugated synthetic peptide corresponding to aa. 329-363 (C-terminus) of Human PIP4K2A.
Conjugation	Un-conjugated
Alternate Names	PtdIns; Phosphatidylinositol 5-phosphate 4-kinase type II alpha; 4; PIP4KII-alpha; Diphosphoinositide kinase 2-alpha; EC 2.7.1.149; 1-phosphatidylinositol 5-phosphate 4-kinase 2-alpha; PIP5K2A; 5; PIPK; PIP5KIII; PI5P4KA; Phosphatidylinositol 5-phosphate 4-kinase type-2 alpha; PI; PIP5KIIA; PIP5KII-alpha

Application Instructions

Application table	Application	Dilution
	FACS	1:25
	ICC/IF	
	IHC-P	1:25
	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	Human brain	

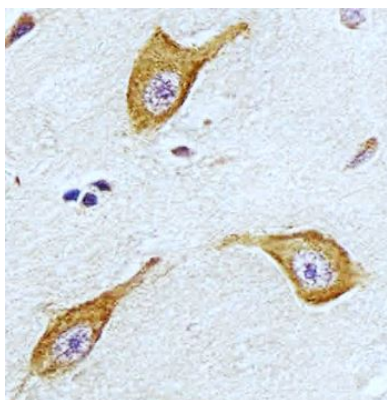
Properties

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.

Bioinformation

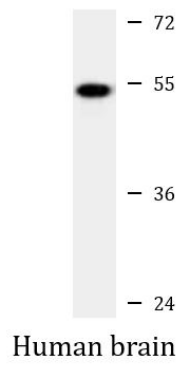
Database links	GeneID: 5305 Human Swiss-port # P48426 Human
Gene Symbol	PIP4K2A
Gene Full Name	phosphatidylinositol-5-phosphate 4-kinase, type II, alpha
Background	Phosphatidylinositol-5,4-bisphosphate, the precursor to second messengers of the phosphoinositide signal transduction pathways, is thought to be involved in the regulation of secretion, cell proliferation, differentiation, and motility. The protein encoded by this gene is one of a family of enzymes capable of catalyzing the phosphorylation of phosphatidylinositol-5-phosphate on the fourth hydroxyl of the myo-inositol ring to form phosphatidylinositol-5,4-bisphosphate. The amino acid sequence of this enzyme does not show homology to other kinases, but the recombinant protein does exhibit kinase activity. This gene is a member of the phosphatidylinositol-5-phosphate 4-kinase family. [provided by RefSeq, Jul 2008]
Function	Catalyzes the phosphorylation of phosphatidylinositol 5-phosphate (PtdIns5P) on the fourth hydroxyl of the myo-inositol ring, to form phosphatidylinositol 4,5-bisphosphate (PtdIns(4,5)P ₂). May exert its function by regulating the levels of PtdIns5P, which functions in the cytosol by increasing AKT activity and in the nucleus signals through ING2. May regulate the pool of cytosolic PtdIns5P in response to the activation of tyrosine phosphorylation. May negatively regulate insulin-stimulated glucose uptake by lowering the levels of PtdIns5P. May be involved in thrombopoiesis, and the terminal maturation of megakaryocytes and regulation of their size. [UniProt]
Calculated Mw	46 kDa
Cellular Localization	Cell membrane. Nucleus. Cytoplasm. Note=May translocate from the cytosol to the cell membrane upon activation of tyrosine phosphorylation. May translocate from the inner to the outer segments of the rod photoreceptor cells in response to light (By similarity). Localization to the nucleus is modulated by the interaction with PIP4K2B.

Images



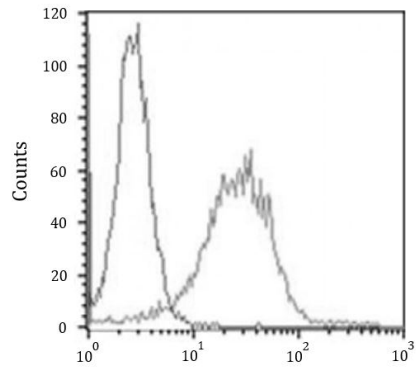
ARG55715 anti-PIP4K2A antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human brain tissue stained with ARG55715 anti-PIP4K2A antibody at 1:25 dilution.



ARG55715 anti-PIP4K2A antibody WB image

Western blot: 20 µg of Human brain lysate stained with ARG55715 anti-PIP4K2A antibody at 1:1000 dilution.



ARG55715 anti-PIP4K2A antibody FACS image

Flow Cytometry: HeLa cells stained with ARG55715 anti-PIP4K2A antibody (right histogram) at 1:25 dilution or isotype control antibody (left histogram), followed by incubation with Alexa Fluor® 488 labelled secondary antibody.