

ARG65815 anti-PIK3CA / p110 alpha antibody

Package: 100 μl Store at: -20°C

Summary

Product DescriptionRabbit Polyclonal antibody recognizes PIK3CA / p110 alphaTested ReactivityHu, MsPredict ReactivityRatTested ApplicationIHC-P, WBHostRabbitClonalityPolyclonalJostypeIgGTarget NamePIK3CA / p110 alphaSpeciesHumanImmunogenKLH-conjugated synthetic peptide around the center region of Human PI3 kinase p110 alpha.ConjugationUn-conjugatedAlternate NamesMCM; MCMTC; p110alpha; PI3-kinase subunit alpha; PI3K; CWSS; p110-alpha; PI3Kalpha; CLOVE; EC 2.7.1.153; MCAP; PtdIns-3-kinase subunit alpha; PI3K-alpha; PtdIns-3-kinase subunit alpha; PI3K-alpha; PtdIns-3-kinase p10 kinase PIK3CA		
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Application Instructions

Application table	Application	Dilution
	IHC-P	1:100 - 1:200
	WB	1:500 - 1:1000
Application Note	0	n citrate buffer (10mM, pH 6.0), Boiling bathing for 20 min. nended starting dilutions and the optimal dilutions or concentrations ientist.

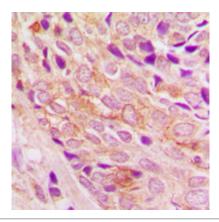
Properties

Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	Liquid (pH 7.3), 0.42% Potassium phosphate, 0.87% NaCl, 0.01% Sodium azide and 30% Glycerol.
Preservative	0.01% Sodium azide
Stabilizer	30% Glycerol
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. 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

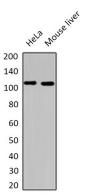
Database links	GenelD: 18706 Mouse
	GenelD: 5290 Human
	Swiss-port # P42336 Human
	Swiss-port # P42337 Mouse
Gene Symbol	PIK3CA
Gene Full Name	phosphatidylinositol-4,5-bisphosphate 3-kinase, catalytic subunit alpha
Background	Phosphatidylinositol 3-kinase is composed of an 85 kDa regulatory subunit and a 110 kDa catalytic subunit. The protein encoded by this gene represents the catalytic subunit, which uses ATP to phosphorylate PtdIns, PtdIns4P and PtdIns(4,5)P2. This gene has been found to be oncogenic and has been implicated in cervical cancers. [provided by RefSeq, Jul 2008]
Function	Phosphoinositide-3-kinase (PI3K) that phosphorylates PtdIns (Phosphatidylinositol), PtdIns4P (Phosphatidylinositol 4-phosphate) and PtdIns(4,5)P2 (Phosphatidylinositol 4,5-bisphosphate) to generate phosphatidylinositol 3,4,5-trisphosphate (PIP3). PIP3 plays a key role by recruiting PH domain-containing proteins to the membrane, including AKT1 and PDPK1, activating signaling cascades involved in cell growth, survival, proliferation, motility and morphology. Participates in cellular signaling in response to various growth factors. Involved in the activation of AKT1 upon stimulation by receptor tyrosine kinases ligands such as EGF, insulin, IGF1, VEGFA and PDGF. Involved in signaling via insulin-receptor substrate (IRS) proteins. Essential in endothelial cell migration during vascular development through VEGFA signaling, possibly by regulating RhoA activity. Required for lymphatic vasculature development, possibly by binding to RAS and by activation by EGF and FGF2, but not by PDGF. Regulates invadopodia formation in breast cancer cells through the PDPK1-AKT1 pathway. Participates in cardiomyogenesis in embryonic stem cells through a AKT1 pathway. Participates in vasculogenesis in embryonic stem cells through a AKT1 pathway. Farticipates in vasculogenesis in embryonic stem cells through a AKT1 pathway. Farticipates in vasculogenesis in embryonic stem cells through a AKT1 pathway. Farticipates in vasculogenesis in embryonic stem cells through a AKT1 pathway. Farticipates in vasculogenesis in embryonic stem cells through a AKT1 pathway. Farticipates in vasculogenesis in embryonic stem cells through a AKT1 pathway. Farticipates in vasculogenesis in embryonic stem cells through a AKT1 pathway. Farticipates in vasculogenesis in embryonic stem cells through a KKT1 pathway. Farticipates in vasculogenesis in embryonic stem cells through a KKT1 pathway. Farticipates in vasculogenesis in embryonic stem cells through a RKT1 pathway. Farticipates in vasculogenesis in embryonic stem cells through a KKT1 pathway. Farticipates i
Calculated Mw	124 kDa

Images



ARG65815 anti-PIK3CA / p110 alpha antibody IHC-P image

Immunohistochemistry: Formalin-fixed and paraffin-embedded Human breast cancer tissue section. Antigen retrieval: Sodium citrate buffer (10mM, pH 6.0), Boiling bathing for 20 min. The section was stained with ARG65815 anti-PIK3CA / p110 alpha antibody at RT and detected using an HRP conjugad compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



ARG65815 anti-PIK3CA / p110 alpha antibody WB image

Western blot: HeLa, and Mouse liver whole cell lysates stained with ARG65815 anti-PIK3CA / p110 alpha antibody.