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Datasheet for ABIN2178474 anti-PIK3CA antibody (AA 1010-1050) (PE)

Publication



Overview

Quantity:	100 μL
Target:	PIK3CA
Binding Specificity:	AA 1010-1050
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PIK3CA antibody is conjugated to PE
Application:	Western Blotting (WB)

Product Details

Immunogen:	KLH conjugated synthetic peptide derived from human PI3KCA
Isotype:	IgG
Cross-Reactivity:	Cow, Human, Mouse, Rabbit, Rat
Predicted Reactivity:	Cow,Chicken
Purification:	Purified by Protein A.

Target Details

Target:	PIK3CA
Alternative Name:	Pi3kca (PIK3CA Products)
Background:	Synonyms: MCM, CWS5, MCAP, PI3K, CLOVE, MCMTC, p11-alpha, Phosphatidylinositol 4,5-

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bisphosphate 3-kinase catalytic subunit alpha isoform, PI3-kinase subunit alpha, PI3K-alpha,
PI3Kalpha, PtdIns-3-kinase subunit alpha, Phosphatidylinositol 4,5-bisphosphate 3-kinase 11
kDa catalytic subunit alpha, PtdIns-3-kinase subunit p11-alpha, p11alpha, Phosphoinositide-3-
kinase catalytic alpha polypeptide, Serine/threonine protein kinase PIK3CA, PIK3CA
Background: 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 PDK1 and protein kinase C
pathway. Has also serine-protein kinase activity: phosphorylates PIK3R1 (p85alpha regulatory
subunit), EIF4EBP1 and HRAS.

Gene ID:	5290
UniProt:	P42336
Pathways:	PI3K-Akt Signaling, RTK Signaling, TCR Signaling, AMPK Signaling, Interferon-gamma Pathway,
	TLR Signaling, Fc-epsilon Receptor Signaling Pathway, EGFR Signaling Pathway, Neurotrophin
	Signaling Pathway, Inositol Metabolic Process, Hepatitis C, CXCR4-mediated Signaling Events,
	Signaling Events mediated by VEGFR1 and VEGFR2, Signaling of Hepatocyte Growth Factor
	Receptor, VEGFR1 Specific Signals, VEGF Signaling

Application Details

Application Notes:	FCM(1:20-100)
Restrictions:	For Research Use only

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