## PI3KCA Antibody HRP Conjugated

Catalog No: #C03929H

Description



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| Description           |   |
|-----------------------|---|
| Product Name          | PI3KCA Antibody HRP Conjugated  |
| Host Species          | Rabbit  |
| Clonality             | Polyclonal  |
| Isotype               | lgG   |
| Purification          | Purified by Protein A.  |
| Applications          | WB IHC-P IHC-F ICC  |
| Species Reactivity    | Hu Ms Rt  |
| Immunogen Description | KLH conjugated synthetic peptide aa 1010-1050 1068 derived from human PI3KCA                              |
| Conjugates            | HRP   |
| Target Name           | РІЗКСА  |
| Other Names           | MCM; CWS5; MCAP; PI3K; CLOVE; MCMTC; p11-alpha; Phosphatidylinositol 4,5-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-kina       |
| Accession No.         | Swiss-Prot#P42336NCBI Gene ID5290   |
| Uniprot               | P42336  |
| GenelD                | 5290;   |
| Excitation Emission   | NA  |
| Cell Localization     | Cytoplasm, Membrane bound   |
| Concentration         | 1mg ml  |
| Formulation           | 0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.  |
| Storage               | Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.                           |
|                       |   |

## Application Details

WB=1:500-2000 IHC-P=1:50-200 IHC-F=1:50-200 ICC=1:50-200

## 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.

Note: This product is for in vitro research use only