

PIP5KI gamma (YD13463) Rabbit mAb

货号: **AYD11935**

产品信息

反应	Human,Mouse,Rat
宿主	Rabbit
克隆性	Monoclonal
预测反应	
应用	WB
推荐浓度	
理论分子量	72kDa
实测分子量	
形式	Liquid
保存条件	Store at -20°C. Avoid freeze / thaw cycles. Buffer: PBS with 0.75% BSA,50% glycerol,pH7.3.
偶联物	Unconjugated
阳性对照	
细胞定位	Cell membrane, Endomembrane system, Cytoplasm, Cell junction, focal adhesion, adherens junction, Cell projection, ruffle membrane, phagocytic cup, uropodium
纯化	

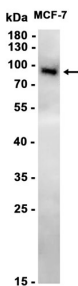
抗原信息

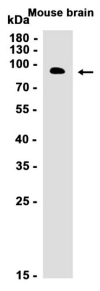
抗原信息	
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靶点信息

研究背景	<p>Catalyzes the phosphorylation of phosphatidylinositol 4-phosphate (PtdIns(4)P/PI4P) to form phosphatidylinositol 4,5-bisphosphate (PtdIns(4,5)P2/PIP2), a lipid second messenger that regulates several cellular processes such as signal transduction, vesicle trafficking, actin cytoskeleton dynamics, cell adhesion, and cell motility (PubMed:14741049, PubMed:20622009, PubMed:22942276, PubMed:9535851). PtdIns(4,5)P2 can directly act as a second messenger or can be utilized as a precursor to generate other second messengers: inositol 1,4,5-trisphosphate (IP3), diacylglycerol (DAG) or phosphatidylinositol-3,4,5-trisphosphate (PtdIns(3,4,5)P3/PIP3) (By similarity). PIP5K1A-mediated phosphorylation of PtdIns(4)P is the predominant pathway for PtdIns(4,5)P2 synthesis (By similarity). Together with PIP5K1A, is required for phagocytosis, both enzymes regulating different types of actin remodeling at sequential steps (PubMed:19153220). Promotes particle attachment by generating the pool of PtdIns(4,5)P2 that induces controlled actin depolymerization to facilitate Fc-gamma-R clustering. Mediates RAC1-dependent reorganization of actin filaments. Required for synaptic vesicle transport (PubMed:15386003). Controls the plasma membrane pool of PtdIns(4,5)P2 implicated in synaptic vesicle endocytosis and exocytosis (By similarity). Plays a role in endocytosis mediated by clathrin and AP-2 (adaptor protein complex 2) (PubMed:16707488). Required for clathrin-coated pits assembly at the synapse (By similarity). Participates in cell junction assembly (By similarity). Modulates adherens junctions formation by facilitating CDH1/cadherin trafficking (By similarity). Required for focal adhesion dynamics (PubMed:12422220). Modulates the targeting of talins (TLN1 and TLN2) to the plasma membrane and their efficient assembly into focal adhesions (By similarity). Regulates the interaction between talins (TLN1 and TLN2) and beta-integrins (By similarity). Required for uropodium formation and retraction of the cell rear during directed migration (PubMed:17928408). Has a role in growth factor-stimulated directional cell migration and adhesion (PubMed:17635937). Required for talin assembly into nascent adhesions forming at the leading edge toward the direction of the growth factor (PubMed:17635937). Negative regulator of T-cell activation and adhesion (PubMed:20855869). Negatively regulates integrin alpha-L/beta-2 (LFA-1) polarization and adhesion induced by T-cell receptor (PubMed:20855869). Together with PIP5K1A has a role during embryogenesis and together with PIP5K1B may have a role immediately after birth (PubMed:17609388, PubMed:20622009)</p>
基因ID	3134
基因名	Pip5k1c
Swiss	O70161
别名	PIP5KI gamma (YD13463)

产品验证





实验步骤

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