

— ABLYBIO, Help Your Research



PIP5K Antibody

货号: **AYP5567**

产品信息

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| 反应 | Human,Mouse |
| 宿主 | Rabbit |
| 克隆性 | Polyclonal |
| 预测反应 | |
| 应用 | WB IF ELISA |
| 推荐浓度 | WB: 1:500 - 1:2000 IF: 1:50 - 1:200 |
| 理论分子量 | 50kDa/51kDa/61kDa/237kDa |
| 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 | Mouse lung |
| 细胞定位 | Endosome membrane |
| 纯化 | Affinity purification |

抗原信息

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| 抗原信息 | Synthesized peptide derived from Human PIP5K. |
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靶点信息

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| 研究背景 | Phosphorylated derivatives of phosphatidylinositol (PtdIns) regulate cytoskeletal functions, membrane trafficking, and receptor signaling by recruiting protein complexes to cell- and endosomal-membranes. Humans have multiple PtdIns proteins that differ by the degree and position of phosphorylation of the inositol ring. This gene encodes an enzyme (PIKfyve; also known as phosphatidylinositol-3-phosphate 5-kinase type III or PIPKIII) that phosphorylates the D-5 position in PtdIns and phosphatidylinositol-3-phosphate (PtdIns3P) to make PtdIns5P and PtdIns(3,5)biphosphate. The D-5 position also can be phosphorylated by type I PtdIns4P-5-kinases (PIP5Ks) that are encoded by distinct genes and preferentially phosphorylate D-4 phosphorylated PtdIns. In contrast, PIKfyve preferentially phosphorylates D-3 phosphorylated PtdIns. In addition to being a lipid kinase, PIKfyve also has protein kinase activity. PIKfyve regulates endomembrane homeostasis and plays a role in the biogenesis of endosome carrier vesicles from early endosomes. Mutations in this gene cause corneal fleck dystrophy (CFD); an autosomal dominant disorder characterized by numerous small white flecks present in all layers of the corneal stroma. Histologically, these flecks appear to be keratocytes distended with lipid and mucopolysaccharide filled intracytoplasmic vacuoles. Alternative splicing results in multiple transcript variants encoding distinct isoforms. |
| 基因ID | 200576 |
| 基因名 | PIKFYVE |
| Swiss | Q9Y217 (https://www.uniprot.org/uniprotkb/Q9Y217/entry) |
| 别名 | PIKFYVE,CFD,FAB1,HEL37,PIP5K,PIP5K3,ZFYVE29,PIP5K Antibody,FYVE finger-containing phosphoinositide kinase,Phosphatidylinositol 3-phosphate 5-kinase type III,Serine-protein kinase PIKFYVE,KIAA0981 |

产品验证

实验步骤

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