

Anti-Phospho-ACAP1 (Ser554) Polyclonal Antibody

Product Details

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| Ig Type: | IgG |
| Reactivity: | Human |
| Conjugation: | Unconjugated |
| Molecular Weight: | Theoretical: 81 kDa. |
| Purification: | The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen. |

Applications

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| Application: | WB,IHC-P,IF(paraffin section),ELISA |
| Recommended | IHC-P: 1:100-300; ELISA: 1:40000 |

Properties

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| Stability & Storage: | Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles. |
| Shipping: | Shipping with blue ice. |

Antigen Details

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| Immunogen: | A synthesized phosphopeptide: human Centaurin-beta1 around the phosphorylation site of Ser554. AA range:520-569 |
| Antigen Species: | human |
| Uniprot ID: | Q15027 |
| Synonyms: | ACAP1 (p-S554);p-ACAP1 (Ser554);p-ACAP1 (S554);ACAP1 (p-Ser554) |

Research Background

domain:PH domain binds phospholipids including phosphatidic acid, phosphatidylinositol 3-phosphate, phosphatidylinositol 3,5-bisphosphate (PIP2) and phosphatidylinositol 3,4,5-trisphosphate (PIP3). May mediate ACAP1-binding to PIP2 or PIP3 containing membranes.,enzyme regulation:GAP activity stimulated by phosphatidylinositol 4,5-bisphosphate (PIP2) and phosphatidic acid.,function:GTPase-activating protein (GAP) for ADP ribosylation factor 6 (ARF6) required for clathrin-dependent export of proteins from recycling endosomes to trans-Golgi network and cell surface.,miscellaneous:Cells overexpressing ACAP1 show an accumulation of ITGB1 in recycling endosomes and inhibition of stimulation-dependent cell migration. Cells with reduced levels of ACAP1 or AKT1 and AKT2 show inhibition of stimulation-dependent cell migration. Cells overexpressing ACAP1 and PIP5K1C show formation of tubular structures derived from endosomal membranes.,PTM:Phosphorylation at Ser-554 by PKB is required for interaction with ITGB1, export of ITGB1 from recycling endosomes to the cell surface and ITGB1-dependent cell migration.,similarity:Contains 1 Arf-GAP domain.,similarity:Contains 1 BAR domain.,similarity:Contains 1 PH domain.,similarity:Contains 3 ANK repeats.,subunit:Interacts with GTP-bound ARF6. Interacts with third cytoplasmic loop of SLC2A4/GLUT4. Interacts with CLTC. Interacts with GULP1. Forms a complex with GDP-bound ARF6 and GULP1.,tissue specificity:Highest level in lung and spleen. Low level in heart, kidney, liver and pancreas.,

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