

## ACAP1 (phospho Ser554) Polyclonal Antibody

Catalog No: YP1017

**Reactivity:** Human; Rat; Mouse;

**Applications:** WB;IHC;IF;ELISA

Target: ACAP1

Fields: >>Endocytosis

Gene Name: ACAP1

Protein Name: Arf-GAP with coiled-coil ANK repeat and PH domain-containing protein 1

Human Gene Id: 9744

**Human Swiss Prot** 

No:

**Mouse Swiss Prot** 

No:

**Immunogen:** The antiserum was produced against synthesized peptide derived from human

Centaurin-beta1 around the phosphorylation site of Ser554. AA range:520-569

Specificity: Phospho-ACAP1 (S554) Polyclonal Antibody detects endogenous levels of

ACAP1 protein only when phosphorylated at S554.

**Formulation :** Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Source: Polyclonal, Rabbit, IgG

**Dilution:** WB 1:500-2000 WB 1:500-2000 IHC 1:100 - 1:300. ELISA: 1:10000-40000. IF

1:50-200

Q15027

Q8K2H4

**Purification:** The antibody was affinity-purified from rabbit antiserum by affinity-

chromatography using epitope-specific immunogen.

Concentration: 1 mg/ml

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**Storage Stability:** -15°C to -25°C/1 year(Do not lower than -25°C)

Molecularweight: 82kD

**Cell Pathway:** Endocytosis;

**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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Subcellular Location : Recycling endosome membrane; Peripheral membrane protein; Cytoplasmic

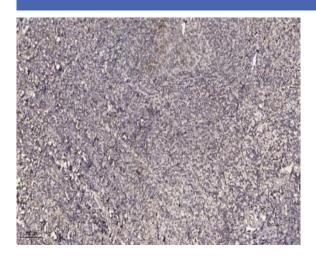
side.

**Expression :** Highest level in lung and spleen. Low level in heart, kidney, liver and pancreas.

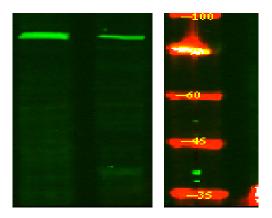
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## **Products Images**



Immunohistochemical analysis of paraffin-embedded human tonsil. 1, Antibody was diluted at 1:200(4° overnight). 2, Tris-EDTA,pH9.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200(room temperature, 30min).



Western Blot analysis of Hela treated or untreated by LPS lysis, using primary antibody at 1:1000 dilution. Secondary antibody(catalog#:RS23920) was diluted at 1:10000