



## Rabbit Anti-CENTB1/ACAP1 antibody

SL13843R

<b>Product Name:</b>	CENTB1/ACAP1
<b>Chinese Name:</b>	胞吞再循环相关衔接蛋白CENTB1抗体
<b>Alias:</b>	ACAP 1; ACAP1; ACAP1_HUMAN; ANK repeat and PH domain-containing protein 1; Arf GAP with coiled coil ANK repeat and PH domains 1; Arf GAP with coiled coil, ankyrin repeat, and pleckstrin homology domains 1; Arf-GAP with coiled-coil; Arf-GAP with coiled-coil, ANK repeat and PH domain-containing protein 1; ArfGAP with coiled-coil, ankyrin repeat and PH domains 1; CENT B1; Centaurin beta 1; Centaurin-beta-1; CENTB 1; Cnt b1; Cnt-b1; Cntb1; KIAA0050.
<b>Organism Species:</b>	Rabbit
<b>Clonality:</b>	Polyclonal
<b>React Species:</b>	Human,Mouse,Rat,Pig,Cow,Horse,Sheep,
<b>Applications:</b>	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500(Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
<b>Molecular weight:</b>	81kDa
<b>Cellular localization:</b>	cytoplasmic
<b>Form:</b>	Lyophilized or Liquid
<b>Concentration:</b>	1mg/ml
<b>immunogen:</b>	KLH conjugated synthetic peptide derived from human CENTB1:501-600/740
<b>Lsotype:</b>	IgG
<b>Purification:</b>	affinity purified by Protein A
<b>Storage Buffer:</b>	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
<b>Storage:</b>	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
<b>PubMed:</b>	<a href="#">PubMed</a>
<b>Product Detail:</b>	ACAP1 is a member of the ADP ribosylation factor family of ARF6 GTPase-activating proteins (GAP). GAPs are important regulators of Arf function by controlling the return

of ARF to its inactive state. ACAP1 is related to AGAP1 and ASAP1, and all three proteins are similarly expressed in fibroblast cells such as NIH/3T3. Internalization and recycling of integrin receptors is important in cell adhesion and migration modulation, and once inside a cell, proteins and membranes are transported to the endosome where they are sorted for recycling or degradation. ACAP1 promotes cargo sorting by associating directly to recycling cargo proteins. Preventing this interaction inhibits protein recycling. ACAP1 binds transferrin receptors, promoting their transport to the plasma membrane from the endosome. Akt induced phosphorylation of ACAP1 at Ser 554 regulates ACAP1 interaction to integrin in endosomes, and downregulation of Akt or ACAP1 may inhibit cell migration on Fibronectin.

**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.

**Tissue Specificity:**

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

**Post-translational modifications:**

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 3 ANK repeats.  
Contains 1 Arf-GAP domain.  
Contains 1 BAR domain.  
Contains 1 PH domain.

**SWISS:**

Q15027

**Gene ID:**

9744

**Database links:**

[Entrez Gene: 9744](#) Human

[Entrez Gene: 216859](#) Mouse

[Omim: 607763](#) Human

[SwissProt: Q15027](#) Human

[SwissProt: Q8K2H4](#) Mouse

[Unigene: 337242](#) Human

[Unigene: 288671](#) Mouse

**Important Note:**

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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