BT LAB
Bioassay Technology Laboratory

Optimize Your Research

Phospho-ACAP1 (S554) Polyclonal Antibody

Description

Product type	Primary Antibody
Code	BT-PHS01017
Host	Rabbit
Isotype	IgG
Size	20ul, 50ul, 100ul
Immunogen	The antiserum was produced against synthesized peptide derived from human Centaurin-beta1 around the phosphorylation site of Ser554. AA range:520-569
Mol wt	81536
Species reactivity	Human
Clonality	Polyclonal
Recommended application	IHC-p, ELISA
Concentration	1 mg/ml
Full name	Phospho-ACAP1 (S554) Antibody
Synonyms	ACAP1; CENTB1; KIAA0050; Arf-GAP with coiled-coil; ANK repeat and PH domain-containing protein 1; Centaurin-beta-1; Cnt-b1

This product is for research use only, not for use in human, therapeutic or diagnostic procedure.

Background

ACAP1, also designated Centaurin-β 1 (CENTB1 or Cnt-β1), 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.

Recommended Dilution

IHC: 1: 100 - 1: 300

ELISA: 1: 40000

Not yet tested in other applications.

Images

No images.

Storage

-20°C for one year

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