

Epac1 Rabbit pAb

Catalog # AP53622

Product Information

Primary Accession	O95398
Host	Rabbit
Clonality	Polyclonal Antibody
Calculated MW	103751

Additional Information

Gene ID	10411
Other Names	EPAC; EPAC1; bcm910; HSU79275; CAMP-GEFI
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

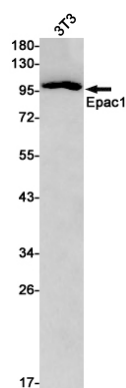
Protein Information

Name	RAPGEF3
Synonyms	CGEF1, EPAC, EPAC1
Function	Guanine nucleotide exchange factor (GEF) for RAP1A and RAP2A small GTPases that is activated by binding cAMP. Through simultaneous binding of PDE3B to RAPGEF3 and PIK3R6 is assembled in a signaling complex in which it activates the PI3K gamma complex and which is involved in angiogenesis. Plays a role in the modulation of the cAMP- induced dynamic control of endothelial barrier function through a pathway that is independent on Rho-mediated signaling. Required for the actin rearrangement at cell-cell junctions, such as stress fibers and junctional actin.
Cellular Location	Endomembrane system
Tissue Location	Widely expressed with highest levels in adult kidney, heart, thyroid and brain, and fetal kidney

Background

Swiss-Prot Acc.O95398.Guanine nucleotide exchange factor (GEF) for RAP1A and RAP2A small GTPases that is activated by binding cAMP. Through simultaneous binding of PDE3B to RAPGEF3 and PIK3R6 is assembled in a signaling complex in which it activates the PI3K gamma complex and which is involved in angiogenesis. Plays a role in the modulation of the cAMP-induced dynamic control of endothelial barrier function through a pathway that is independent on Rho-mediated signaling. Required for the actin rearrangement at cell-cell junctions, such as stress fibers and junctional actin.

Images



Western blot detection of Epac1 in 3T3 cell lysates using Epac1 Rabbit pAb(1:1000 diluted). Predicted band size:104kDa.Observed band size:104kDa.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.