Anti-Epac antibody

Description	Rabbit polyclonal to Epac.

Model	STJ92936
Host	Rabbit
Reactivity	Human, Mouse, Rat
Applications	ELISA, WB
Immunogen	Synthesized peptide derived from human Epac
Immunogen Region	690-770 aa, C-terminal
Gene ID	10411
Gene Symbol	RAPGEF3
Dilution range	WB 1:500-1:2000ELISA 1:40000
Specificity	Epac Polyclonal Antibody detects endogenous levels of Epac protein.
Tissue Specificity	Widely expressed with highest levels in adult kidney, heart, thyroid and brain, and fetal kidney.
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Note	For Research Use Only (RUO).
Protein Name	Rap guanine nucleotide exchange factor 3 Exchange factor directly activated by cAMP 1 Exchange protein directly activated by cAMP 1 EPAC 1 Rap1 guanine-nucleotide-exchange factor directly activated by cAMP cAMP-regulated guan

Molecular Weight	110/100 kDa
Clonality	Polyclonal
Conjugation	Unconjugated
Isotype	IgG
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Concentration	1 mg/ml
Storage Instruction	Store at -20°C, and avoid repeat freeze-thaw cycles.
Database Links	HGNC:16629OMIM:606057
Alternative Names	Rap guanine nucleotide exchange factor 3 Exchange factor directly activated by cAMP 1 Exchange protein directly activated by cAMP 1 EPAC 1 Rap1 guanine-nucleotide-exchange factor directly activated by cAMP cAMP-regulated guan
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.
Sequence and Domain Family	The DEP domain is involved in membrane localization independent from regulation by cAMP.
Cellular Localization	Endomembrane system