



RPGF4 Polyclonal Antibody

Catalog No	YP-Ab-06019
Isotype	IgG
Reactivity	Human;Rat;Mouse
Applications	WB;ELISA
Gene Name	RAPGEF4 CGEF2 EPAC2
Immunogen	Synthesized peptide derived from human protein . at AA range: 240-320
Specificity	RPGF4 Polyclonal Antibody detects endogenous levels of protein.
Formulation	Liquid in PBS containing 50% glycerol, and 0.02% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-2000 ELISA 1:5000-20000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	CAMP GEFII;CGEF2;EPAC 2;EPAC2;Nbla00496;RAPGEF4;RPGF4;RAPGEF4 CGEF2 EPAC2;Rap guanine nucleotide exchange factor 4 (Exchange factor directly activated by cAMP 2) (Exchange protein directly activated by cAMP 2) (EPAC 2) (cAMP-regulated guanine nucleotide exchange factor II)
Observed Band	110 kDa
Calculated Molecular Weight	116 kDa
Cell Pathway	Cytoplasm. Membrane ; Peripheral membrane protein .
Tissue Specificity	Predominantly expressed in brain and adrenal gland. Isoform 2 is expressed in liver. Isoform 1 is expressed in liver at very low levels.
Function	domain:The DEP domain is involved in membrane localization independent from regulation by cAMP.,domain:The N-terminal nucleotide phosphate binding region cAMP 1 has a much lower affinity for cAMP as compared to cAMP 2.,function:Guanine nucleotide exchange factor (GEF) for RAP1A, RAP1B and RAP2A small GTPases that is activated by binding cAMP. Seems not to activate RAB3A. Involved in cAMP-dependent, PKA-independent exocytosis through interaction with RIMS2.,similarity:Contains 1 DEP domain.,similarity:Contains 1 N-terminal Ras-GEF domain.,similarity:Contains 1 Ras-GEF domain.,similarity:Contains 2 cyclic nucleotide-binding domains.,subunit:Interacts with



RIMS1 and RIMS2. Probably part of a complex with RIMS2 and GTP-activated RAB3A.,tissue specificity:Predominantly expressed in brain and adrenal gland. Isoform 2 is expressed in liver. Isoform 1 is expressed in liver at very low levels.,

Background

domain:The DEP domain is involved in membrane localization independent from regulation by cAMP.,domain:The N-terminal nucleotide phosphate binding region cAMP 1 has a much lower affinity for cAMP as compared to cAMP 2.,function:Guanine nucleotide exchange factor (GEF) for RAP1A, RAP1B and RAP2A small GTPases that is activated by binding cAMP. Seems not to activate RAB3A. Involved in cAMP-dependent, PKA-independent exocytosis through interaction with RIMS2.,similarity:Contains 1 DEP domain.,similarity:Contains 1 N-terminal Ras-GEF domain.,similarity:Contains 1 Ras-GEF domain.,similarity:Contains 2 cyclic nucleotide-binding domains.,subunit:Interacts with RIMS1 and RIMS2. Probably part of a complex with RIMS2 and GTP-activated RAB3A.,tissue specificity:Predominantly expressed in brain and adrenal gland. Isoform 2 is expressed in liver. Isoform 1 is expressed in liver at very low levels.,

matters needing attention

Avoid repeated freezing and thawing!

Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images