

RPGF2 Polyclonal Antibody

Catalog No :	YN1147
Reactivity :	Human;Rat;Mouse
Applications :	WB;ELISA
Target :	RPGF2
Fields :	>>MAPK signaling pathway;>>Rap1 signaling pathway;>>Tight junction
Gene Name :	RAPGEF2 KIAA0313 NRAPGEP PDZGEF1
Protein Name :	Rap guanine nucleotide exchange factor 2 (Neural RAP guanine nucleotide exchange protein) (nRap GEP) (PDZ domain-containing guanine nucleotide exchange factor 1) (PDZ-GEF1) (RA-GEF)
Human Gene Id :	9693
Human Swiss Prot No :	Q9Y4G8
Mouse Swiss Prot No :	Q8CHG7
Rat Swiss Prot No :	F1M386
Immunogen :	Synthesized peptide derived from human protein . at AA range: 190-270
Specificity :	RPGF2 Polyclonal Antibody detects endogenous levels of protein.
Formulation :	Liquid in PBS containing 50% glycerol, and 0.02% sodium azide.
Source :	Polyclonal, Rabbit,IgG
Dilution :	WB 1:500-2000 ELISA 1:5000-20000
Purification :	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Concentration :	1 mg/ml

Storage Stability :	-15 °C to -25 °C/1 year(Do not lower than -25 °C)
Observed Band :	164kD
Cell Pathway :	MAPK_ERK_Growth;MAPK_G_Protein;
Background :	Members of the RAS (see HRAS; MIM 190020) subfamily of GTPases function in signal transduction as GTP/GDP-regulated switches that cycle between inactive GDP- and active GTP-bound states. Guanine nucleotide exchange factors (GEFs), such as RAPGEF2, serve as RAS activators by promoting acquisition of GTP to maintain the active GTP-bound state and are the key link between cell surface receptors and RAS activation (Rebhun et al., 2000 [PubMed 10934204]).[supplied by OMIM, Mar 2008],
Function :	function:Guanine nucleotide exchange factor (GEF) for Rap1A, Rap1B and Rap2B GTPases. Does not interact with cAMP or cGMP.,PTM:Phosphorylated upon DNA damage, probably by ATM or ATR.,similarity:Contains 1 cyclic nucleotide-binding domain.,similarity:Contains 1 N-terminal Ras-GEF domain.,similarity:Contains 1 PDZ (DHR) domain.,similarity:Contains 1 Ras-associating domain.,similarity:Contains 1 Ras-GEF domain.,subcellular location:Associated with the synaptic plasma membrane.,subunit:Interacts with MAGI2.,tissue specificity:Highest expression levels in brain. Lower expression levels in heart, kidney, lung, and placenta.,
Subcellular Location :	Cytoplasm. Cytoplasm, perinuclear region. Cell membrane. Late endosome. Cell junction . Associated with the synaptic plasma membrane. Colocalizes with ADRB1 at the plasma membrane. Synaptosome. Enriched in synaptic plasma membrane and neuronal cell body. Colocalized with CTNNB1 at cell-cell contacts (By similarity). Localized diffusely in the cytoplasm before neuronal growth factor (NGF) stimulation. Recruited to late endosomes after NGF stimulation. Colocalized with the high affinity nerve growth factor receptor NTRK1 at late endosomes. Translocated to the perinuclear region in a RAP1A-dependent manner. Translocated to the cell membrane. .
Expression :	Expressed in primary neuronal and endocrine cells (at protein level). Highest expression levels in brain. Lower expression levels in heart, kidney, lung, placenta and blood leukocytes.
Sort :	21391
No4 :	1
Host :	Rabbit
Modifications :	Unmodified

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