

RGRF1 Polyclonal Antibody

Catalog No :	YN3032
Reactivity :	Human;Mouse;Rat
Applications :	WB;ELISA
Target :	RGRF1
Fields :	>>MAPK signaling pathway;>>Ras signaling pathway;>>Focal adhesion
Gene Name :	RASGRF1 CDC25 GNRP GRF1
Protein Name :	Ras-specific guanine nucleotide-releasing factor 1 (Ras-GRF1) (Guanine nucleotide-releasing protein) (GNRP) (Ras-specific nucleotide exchange factor CDC25)
Human Gene Id :	5923
Human Swiss Prot No :	Q13972
Mouse Swiss Prot No :	P27671
Rat Swiss Prot No :	P28818
Immunogen :	Synthesized peptide derived from part region of human protein
Specificity :	RGRF1 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 : 140kD

Cell Pathway : MAPK_ERK_Growth;MAPK_G_Protein;Focal adhesion;

Background : The protein encoded by this gene is a guanine nucleotide exchange factor (GEF) similar to the *Saccharomyces cerevisiae* CDC25 gene product. Functional analysis has demonstrated that this protein stimulates the dissociation of GDP from RAS protein. The studies of the similar gene in mouse suggested that the Ras-GEF activity of this protein in brain can be activated by Ca²⁺ influx, muscarinic receptors, and G protein beta-gamma subunit. Mouse studies also indicated that the Ras-GEF signaling pathway mediated by this protein may be important for long-term memory. Alternatively spliced transcript variants encoding distinct isoforms have been reported. [provided by RefSeq, Mar 2009],

Function : domain:The DH (DBL-homology) domain mediates interaction with RASGRF2.,function:Promotes the exchange of Ras-bound GDP by GTP.,PTM:Ubiquitinated.,similarity:Contains 1 DH (DBL-homology) domain.,similarity:Contains 1 IQ domain.,similarity:Contains 1 N-terminal Ras-GEF domain.,similarity:Contains 1 Ras-GEF domain.,similarity:Contains 2 PH domains.,subunit:Homooligomer and heterooligomer with RASGRF2. Interacts with USP8, thereby regulating its stability.,

Subcellular Location : intracellular,cytosol,plasma membrane,growth cone,neuron projection,

Expression : Brain,Thalamus,

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