

RGRF1 Polyclonal Antibody

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| 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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