

## RASGRF1 Polyclonal Antibody

Catalog number: 12958-1-AP

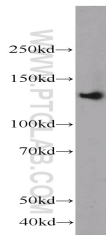
Size: 20 µg/150 µl

Source: Rabbit

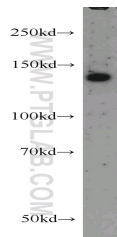
Isotype: IgG

Synonyms:

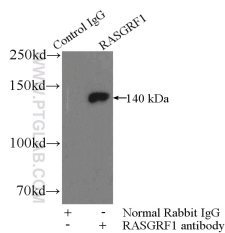
RASGRF1; CDC25, CDC25L,  
GNRP, GRF1, GRF55, H GRF55,  
PP13187, Ras GRF1, RASGRF1



rat brain tissue were subjected to SDS PAGE followed by western blot with 12958-1-AP(RASGRF1 antibody) at dilution of 1:600



human brain tissue were subjected to SDS PAGE followed by western blot with 12958-1-AP(RASGRF1 antibody) at dilution of 1:600



IP Result of anti-RASGRF1 (IP:12958-1-AP, 4ug; Detection:12958-1-AP 1:500) with rat brain tissue lysate 4000ug.

### Background

RasGRF1, a member of calmodulin-activated guanine-nucleotide exchange factors (GEFs), highly expressed at the synaptic junctions of the central nervous system (CNS). It is similar to the *Saccharomyces cerevisiae* CDC25. RASGRF1 serves as an in vivo activator for H-RAS and members of the R-RAS and RAC subfamilies. Several studies have shown that RasGRF1 also binds to microtubules and participate in the regulation of neurite outgrowth. RasGRF1 has been implicated in neuronal excitability. The studies of the similar gene in mouse suggested that the Ras-GEF activity of this protein in brain can be activated by Ca<sup>2+</sup> 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.

### Applications

Tested applications:	ELISA, WB, IP
Species specificity:	Human, Mouse, Rat; other species not tested.
Calculated RASGRF1 MW:	134 kDa
Observed RASGRF1 MW:	130-140 kDa
Positive WB detected in	Human brain tissue, rat brain tissue
Positive IP detected in	Rat brain tissue
Recommended dilution:	WB: 1:200-1:2000 IP: 1:200-1:2000

Application key: WB = Western blotting, IHC = Immunohistochemistry, IF = Immunofluorescence, IP = Immunoprecipitation

### Immunogen information

Immunogen:	Ag4072
GenBank accession number:	BC040275
Gene ID (NCBI):	5923
Full name:	Ras protein-specific guanine nucleotide-releasing factor 1

### Product information

Purification method:	Antigen affinity purification
Storage:	PBS with 0.1% sodium azide and 50% glycerol pH 7.3. Store at -20°C.