

RASGRF1 Monoclonal antibody, PBS Only

Catalog Number: **67010-1-PBS**

Basic Information

Catalog Number:	GenBank Accession Number:	Purification Method:
67010-1-PBS	BC040275	Protein A purification
Size:	GeneID (NCBI):	CloneNo.:
1mg/ml	5923	1A4D4
Source:	UNIPROT ID:	
Mouse	Q13972	
Isotype:	Full Name:	
IgG1	Ras protein-specific guanine nucleotide-releasing factor 1	
Immunogen Catalog Number:	Calculated MW:	
AG6937	134 kDa	
	Observed MW:	
	145 kDa	

Applications

Tested Applications:
WB, Indirect ELISA

Species Specificity:
rat, pig

Background Information

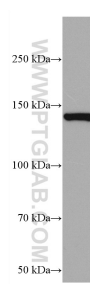
RasGRF1, a member of calmodulin-activated guanine-nucleotide exchange factors (GEFs), highly expressed at the synaptic junctions of the central nervous system (CNS). It is similar to the *Saccharomyces cerevisiae* CDC25. RASGRF1 serves as an in vivo activator for H-RAS and members of the R-RAS and RAC 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 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.

Storage

Storage:
Store at -80°C.
The product is shipped with ice packs. Upon receipt, store it immediately at -80°C

Storage Buffer:
PBS Only

Selected Validation Data



pig cerebellum tissue were subjected to SDS PAGE followed by western blot with 67010-1-Ig (RASGRF1 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 67010-1-PBS in a different storage buffer formulation.