

For Research Use Only

RASGRF1 Monoclonal antibody, PBS Only



Catalog Number: 67010-1-PBS

Basic Information

Catalog Number: 67010-1-PBS	GenBank Accession Number: BC040275	Purification Method: Protein A purification
Size: 100ug , Concentration: 1mg/ml by Nanodrop;	GeneID (NCBI): 5923	CloneNo.: 1A4D4
Source: Mouse	UNIPROT ID: Q13972	
Isotype: IgG1	Full Name: Ras protein-specific guanine nucleotide-releasing factor 1	
Immunogen Catalog Number: AG6937	Calculated MW: 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

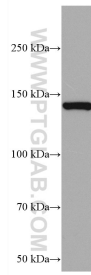
Storage:
Store at -80°C.

Storage Buffer:
PBS Only

For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA) E: proteintech@ptglab.com
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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.