

For Research Use Only

RGS14 Recombinant monoclonal antibody, PBS Only

Catalog Number: 87396-1-PBS



Basic Information

Catalog Number: 87396-1-PBS	GenBank Accession Number: NM_006480.5	Purification Method: Protein A purification
Size: 100ug, Concentration: 1 mg/ml by Nanodrop;	GeneID (NCBI): 10636	CloneNo.: 252605A11
Source: Rabbit	UNIPROT ID: O43566-7	
Isotype: IgG	Full Name: regulator of G-protein signaling 14	
Immunogen Catalog Number: EG5508	Calculated MW: 61 kDa	
	Observed MW: 60-65 kDa	

Applications

Tested Applications:
WB, Indirect ELISA
Species Specificity:
human

Background Information

RGS14, a member of the R12 subfamily of RGS proteins, is highly expressed in the brain and is a natural suppressor of CA2 hippocampal synaptic plasticity and learning and memory. RGS14 was first identified as a complex scaffolding protein with an unconventional domain structure that allows it to interact with various protein binding partners. RGS14 contains one RGS domain, two Raf-like Ras-binding domains (RBDs), and one GoLoco domain. The protein attenuates the signaling activity of G-proteins by binding, through its GoLoco domain, to specific types of activated, GTP-bound G alpha subunits. Acting as a GTPase activating protein (GAP), the protein increases the rate of conversion of the GTP to GDP.

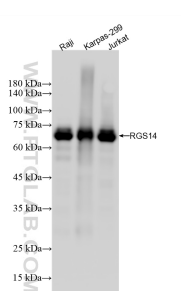
Storage

Storage:
Store at -80°C.
Storage Buffer:
PBS only, pH7.3

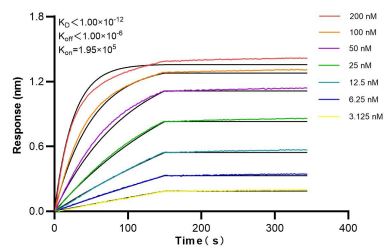
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
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W: ptglab.com

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Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 87396-1-RR (RGS14 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 87396-1-PBS in a different storage buffer formulation.



Biolayer interferometry (BLI) kinetic assays of 87396-1-RR against Human RGS14 were performed. The affinity constant is below 1 pM.