

RGS14 Recombinant monoclonal antibody

Catalog Number: 87396-1-RR

Basic Information

Catalog Number: 87396-1-RR	GenBank Accession Number: NM_006480.5	Purification Method: Protein A purification
Source: Rabbit	GeneID (NCBI): 10636	CloneNo.: 252605A11
Isotype: IgG	UNIPROT ID: O43566-7	Recommended Dilutions: WB: 1:500-1:2000
Immunogen Catalog Number: EG5508	Full Name: regulator of G-protein signaling 14	
	Calculated MW: 61 kDa	
	Observed MW: 60-65 kDa	

Applications

Tested Applications: WB, ELISA	Positive Controls: WB : Raji cells, Karpas-299 cells, Jurkat cells
Species Specificity: human	

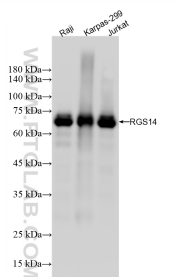
Background Information

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.

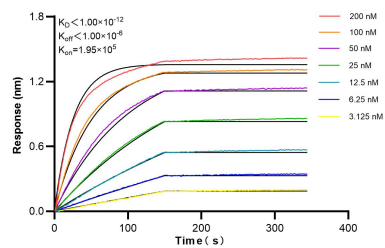
Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

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.



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