

RGS14 Polyclonal Antibody

Catalog NumberPA5-30397

Product data sheet

Details		Species Reactivity	
Size	100 µL	Species reactivity	Human, Mouse
Host/Isotope	Rabbit / IgG	Tested Applications	
Class	Polyclonal	Immunohistochemistry (Paraffin) (IHC (P))	1:100-1:1,000
Type	Antibody	Western Blot (WB)	1:500-1:3,000
Immunogen	Recombinant fragment corresponding to a region within amino acids 1 and 193 of Human RGS14	* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.	
Conjugate	Unconjugated		
Form	Liquid		
Concentration	0.7 mg/mL		
Purification	Antigen affinity chromatography		
Storage buffer	0.1M tris glycine, pH 7, with 20% glycerol		
Contains	0.01% thimerosal		
Storage Conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.		

Product specific information

Recommended positive controls: 293T, A431, Jurkat, Raji. Predicted reactivity: Mouse (91%), Rat (90%), Bovine (99%). Store product as a concentrated solution. Centrifuge briefly prior to opening the vial.

Background/Target Information

RGS14 is a member of the regulator of G-protein signaling family which contains one RGS domain, two Raf-like Ras-binding domains (RBDs), and one GoLoco domain. RGS14 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. The resulting hydrolysis allows the G alpha subunits to bind G beta/gamma subunit heterodimers, forming inactive G-protein heterotrimers, thereby terminating the signal. Alternate transcriptional splice variants of RGS14 have been observed but have not been thoroughly characterized. Further, RGS14 acts as a positive modulator of microtubule polymerisation and spindle organization through a G(i)-alpha-dependent mechanism; plays a role in cell division; is required for the nerve growth factor (NGF)-mediated neurite outgrowth, and is involved in stress resistance. RGS14 protein may also be involved in visual memory processing capacity and hippocampal-based learning and memory.

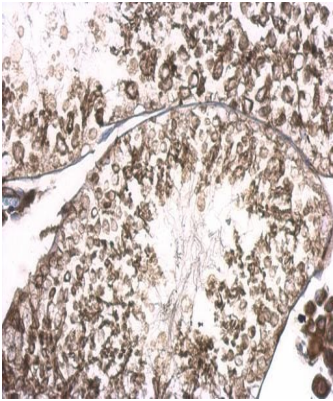
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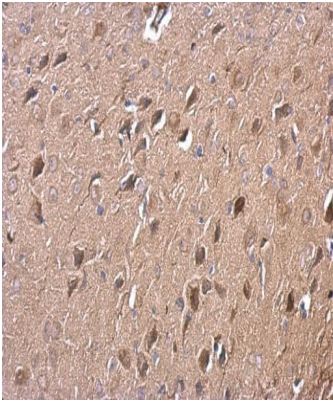
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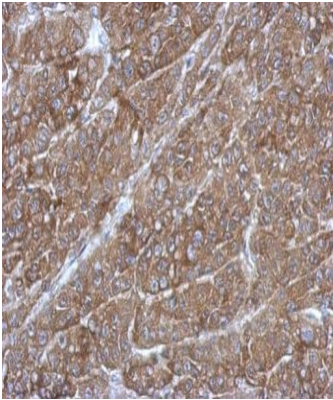
Product Images For RGS14 Polyclonal Antibody



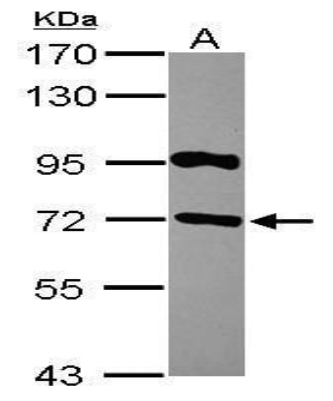
RGS14 Antibody (PA5-30397) in IHC (P)
RGS14 Polyclonal Antibody detects RGS14 protein at cytosol on mouse testis by immunohistochemical analysis.
Sample: Paraffin-embedded mouse testis. RGS14 Polyclonal Antibody (Product # PA5-30397) dilution: 1:500. Antigen Retrieval: EDTA based buffer, pH 8.0, 15 min.



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RGS14 Antibody (PA5-30397) in IHC (P)
Immunohistochemical analysis of paraffin-embedded HBL435 xenograft, using RGS14 (Product # PA5-30397) antibody at 1:500 dilution. Antigen Retrieval: EDTA based buffer, pH 8.0, 15 min.



RGS14 Antibody (PA5-30397) in WB
Western Blot using RGS14 Polyclonal Antibody (Product # PA5-30397). Sample (30 µg of whole cell lysate). Lane A: Jurkat . 7.5% SDS PAGE. RGS14 Polyclonal Antibody (Product # PA5-30397) diluted at 1:2,000.

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