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RGS9 antibody - N-terminal region

Rabbit Polyclonal Antibody
Catalog # AI16193

Product Information

Application	WB, IHC
Primary Accession	O75916
Other Accession	NM_003835, NP_003826
Reactivity	Human, Mouse, Rat, Rabbit, Dog, Horse, Bovine
Predicted	Human, Mouse, Rat, Rabbit, Dog, Horse, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	76966

Additional Information

Gene ID	8787
Alias Symbol	PERRS, RGS9L
Other Names	Regulator of G-protein signaling 9, RGS9, RGS9
Format	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
Reconstitution & Storage	Add 100 ul of distilled water. Final anti-RGS9 antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.
Precautions	RGS9 antibody - N-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	RGS9
Function	Inhibits signal transduction by increasing the GTPase activity of G protein alpha subunits thereby driving them into their inactive GDP-bound form. Binds to GNAT1. Involved in phototransduction; key element in the recovery phase of visual transduction (By similarity).
Cellular Location	[Isoform 3]: Membrane; Peripheral membrane protein. Note=Isoform 3 is targeted to the membrane via its interaction with RGS9BP.
Tissue Location	Highly expressed in the caudate and putamen, lower levels found in the hypothalamus and nucleus accumbens and very low levels in cerebellum. Not expressed in globus pallidus or cingulate cortex. Isoform 2 is expressed

predominantly in pineal gland and retina. Isoform 3 is expressed in retina (abundant in photoreceptors)

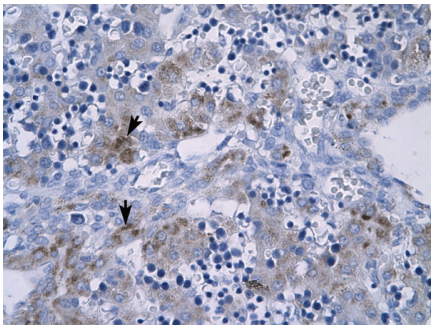
Background

Inhibits signal transduction by increasing the GTPase activity of G protein alpha subunits thereby driving them into their inactive GDP-bound form. Binds to G(t)-alpha. Involved in phototransduction; key element in the recovery phase of visual transduction (By similarity).

References

Granneman J.G.,et al.Mol. Pharmacol. 54:687-694(1998).
Zhang K.,et al.Gene 240:23-34(1999).
Puhl H.L. III,et al.Submitted (MAR-2004) to the EMBL/GenBank/DDBJ databases.
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Zody M.C.,et al.Nature 440:1045-1049(2006).

Images



Human Liver

WB Suggested Anti-RGS9 Antibody Titration: 2.0µg/ml
Positive Control: HepG2 cell lysate