DATASHEET

RGS4 Rabbit Polyclonal Antibody

CAT. NO. ARA5843

KEY FEATURES

Target	RGS4	**Source/Host**	Rabbit
Reactivity	Human, Mouse, Rat	**Clonality**	Polyclonal
Applications	WB,IHC,IF/ICC,IP,ELISA	**Conjugation**	Unconjugated
Isotype	IgG	**Storage**	at -20°C

BACKGROUND

RGS4 (regulator of G-protein signaling 4) is a member of the R4 subfamily of RGS proteins, a large family of highly diverse, multifunctional signaling proteins that act as GTPase-activating proteins (GAPs) for the alpha subunits of heterotrimeric G proteins. RGS4 accelerates the GTPase activity of the Gαi/o and Gαq/11 family members, thereby negatively regulating signal transduction downstream of G protein-coupled receptors. RGS4 is highly expressed in multiple brain regions including the cerebral cortex, amygdala, hippocampus and striatum, and plays an important role in regulating smooth muscle contraction, cardiomyocyte development, neuronal plasticity and psychiatric disorders. Altered RGS4 expression and function have been linked to schizophrenia and other neuropsychiatric conditions.

APPLICATION

To ensure optimal assay performance, AREX recommends conducting reagent titration tailored to each testing system for optimal detection results.

WB	1:500 - 1:1000
IHC	1:50 - 1:500
IF/ICC	1:200 - 1:800
IP	0.5-4.0 µg for 1.0-3.0 mg of total protein lysate
ELISA	Assay-dependent

*Results are sample-specific. Please refer to your local assay conditions and test parameters for reference.

OVERVIEW

Description	RGS4 Rabbit Polyclonal Antibody for WB, IHC, IF, IP, ELISA
Specificity	Reacts with RGS4 in WB, IHC, IF, IP and ELISA applications. Shows reactivity with human, mouse and rat samples.
Antibody Type	Primary antibody
Immunogen	Recombinant human RGS4 protein (amino acids 1-205) expressed in E. coli with a GST tag.
Molecular Weight	Predicted: 23 kDa; Observed: 23-30 kDa
Purification	The antibody was purified by antigen affinity chromatography.
Isotype	IgG
Form/Buffer	Liquid in PBS with 0.02% sodium azide and 50% glycerol, pH 7.3.
Alternative Names	RGP4, SCZD9
Gene Symbol	RGS4
Entrez Gene	5999
SwissProt	P49798

*AREX continuously optimizes our products. Webpage content may not reflect the latest updates. For inquiries, please contact info@arexbio.com or your local distributor.

*Clone Number, Reactivity, Source/Host and Clonality can be found in the product name and Key Features section above.

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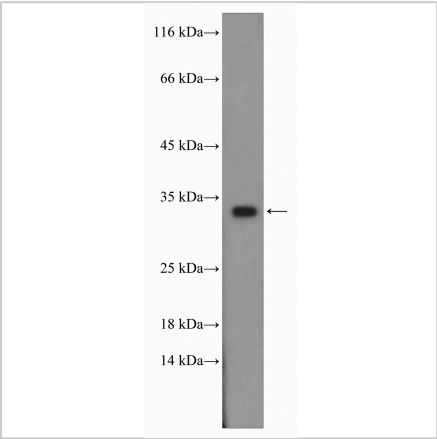
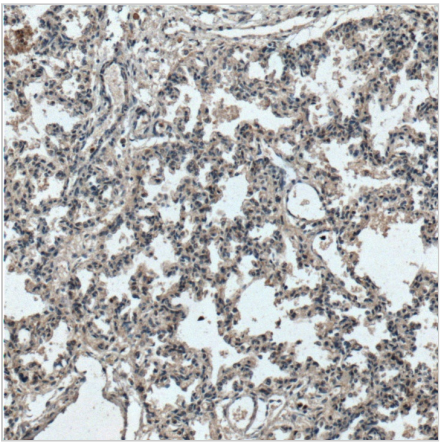
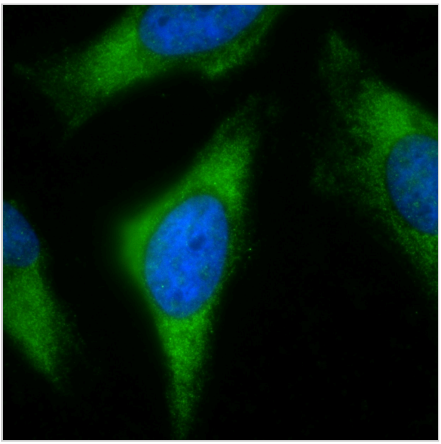
DATA



Mouse cerebellum tissue were subjected to SDS PAGE followed by western blot with RGS4 Rabbit Polyclonal Antibody at dilution of 1:600 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human lung tissue slide using RGS4 Rabbit Polyclonal Antibody at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Ethanol) fixed HeLa cells using RGS4 Rabbit Polyclonal Antibody at dilution of 1:400 and AREX Fluor 488-conjugated Goat Anti-Rabbit IgG (H+L).

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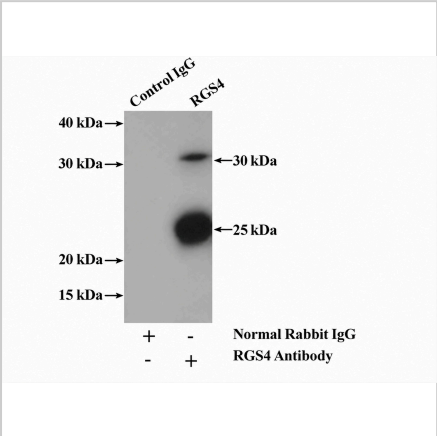

IP result of RGS4 Rabbit Polyclonal Antibody (IP: 4 µg; Detection: 1:300) with mouse brain tissue lysate 4000 µg.

STORAGE

Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.

NOTE

For Research Use Only. Not for diagnostic, therapeutics, prophylactic or in vivo use.

More information: www.arexbio.com