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Datasheet for ABIN2856096 anti-RGS7 antibody

2 Images



#### Overview

Quantity:	100 µL
Target:	RGS7
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This RGS7 antibody is un-conjugated
Application:	Western Blotting (WB), Immunocytochemistry (ICC), Immunofluorescence (IF)
Product Details	
Immunogen:	Recombinant protein encompassing a sequence within the center region of human RGS7. The exact sequence is proprietary.
Isotype:	IgG
Cross-Reactivity:	Human
Characteristics:	Rabbit Polyclonal antibody to RGS7 (regulator of G-protein signaling 7) RGS7 antibody
Purification:	Purified by antigen-affinity chromatography.
Target Details	
Target:	RGS7
Alternative Name:	regulator of G protein signaling 7 (RGS7 Products)

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# Target Details Background: Inhibits signal transduction by increasing the GTPase activity of G protein alpha subunits thereby driving them into their inactive GDP-bound form. Activity on G(o)-alpha is specifically enhanced by the RGS6/GNG5 dimer. May play a role in synaptic vesicle exocytosis. May play important role in the rapid regulation of neuronal excitability and the cellular responses to shortlived stimulations.

Molecular Weight:	58 kDa
Gene ID:	6000
UniProt:	P49802
Pathways:	Myometrial Relaxation and Contraction, Regulation of G-Protein Coupled Receptor Protein
	Signaling

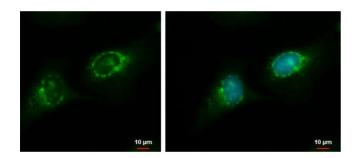
## Application Details

Application Notes:	WB: 1:500-1:3000. ICC/IF: 1:100-1:1000. Optimal dilutions/concentrations should be determined by the researcher. Not tested in other applications.
Comment:	Positive Control: U87-MG , SK-N-SH
Restrictions:	For Research Use only

### Handling

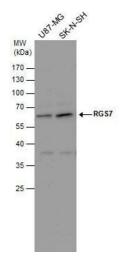
Format:	Liquid
Concentration:	1 mg/mL
Buffer:	1XPBS ( pH 7), 20 % Glycerol, 0.01 % Thimerosal
Preservative:	Thimerosal (Merthiolate)
Precaution of Use:	This product contains Thimerosal (Merthiolate): a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Store as concentrated solution. Centrifuge briefly prior to opening vial. For short-term storage (1-2 weeks), store at 4°C. For long-term storage, aliquot and store at -20°C or below. Avoid multiple freeze-thaw cycles.

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#### Immunofluorescence

**Image 1.** ICC/IF Image RGS7 antibody detects RGS7 protein at endoplasmic reticulum by immunofluorescent analysis. Sample: NT2D1 cells were fixed in ice-cold MeOH for 5 min. Green: RGS7 protein stained by RGS7 antibody , diluted at 1:500. Blue: Hoechst 33342 staining.



#### Western Blotting

**Image 2.** WB Image RGS7 antibody detects RGS7 protein by western blot analysis. Various whole cell extracts (30  $\mu$ g) were separated by 10% SDS-PAGE, and the membrane was blotted with RGS7 antibody, diluted by 1:1000.

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