

## Product datasheet

# Recombinant Human RGS2 protein ab169917

### Overview

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<b>Product name</b>	Recombinant Human RGS2 protein
<b>Protein length</b>	Full length protein

### Description

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<b>Nature</b>	Recombinant
<b>Source</b>	Escherichia coli
<b>Amino Acid Sequence</b>	
<b>Accession</b>	<a href="#">P41220</a>
<b>Species</b>	Human
<b>Sequence</b>	MASMTGGQQMGRGEFGSMQSAMFLAVQHDCRPMD KSAGSGHKSEEKREKM KRTLLKDWKTRLSYFLQNSSTPGPKTGKKSQQAFIK PSPEEAQLWSEA FDELLASKYGLAAFRAFLKSEFCEENIEFWLACEDFK KTKSPQKLSSKAR KIYDFIEKEAPKEINIDFQTKLIAQNIQEATSGCFTTAQ KRVYSLMEN NSYPRFLESEFYQDLCKKPQITTEPHAT
<b>Molecular weight</b>	26 kDa including tags
<b>Amino acids</b>	1 to 211
<b>Tags</b>	T7 tag N-Terminus

### Specifications

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Our [Abpromise guarantee](#) covers the use of **ab169917** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

<b>Applications</b>	SDS-PAGE
<b>Purity</b>	>90% by SDS-PAGE. ab169917 was expressed in E.coli as inclusion bodies. The final product was refolded and chromatographically purified.
<b>Form</b>	Liquid

### Preparation and Storage

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### Stability and Storage

Shipped at 4°C. Upon delivery aliquot and store at -80°C. Avoid freeze / thaw cycles.

pH: 8.00

Constituent: 0.32% Tris-HCl buffer

Note: Contains, NaCl, KCl, EDTA, arginine, DTT and Glycerol.

## General Info

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### Function

Regulates G protein-coupled receptor signaling cascades. Inhibits signal transduction by increasing the GTPase activity of G protein alpha subunits, thereby driving them into their inactive GDP-bound form (PubMed:11063746, PubMed:19478087). Plays a role in the regulation of blood pressure in response to signaling via G protein-coupled receptors and GNAQ. Plays a role in regulating the constriction and relaxation of vascular smooth muscle (By similarity). Binds EIF2B5 and blocks its activity, thereby inhibiting the translation of mRNA into protein (PubMed:19736320).

### Tissue specificity

Expressed in acute myelogenous leukemia (AML) and in acute lymphoblastic leukemia (ALL).

### Sequence similarities

Contains 1 RGS domain.

### Post-translational modifications

Phosphorylated by protein kinase C. Phosphorylation by PRKG1 leads to activation of RGS2 activity.

### Cellular localization

Cell membrane. Mitochondrion and Cell membrane. Cytoplasm. Nucleus, nucleolus.

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**Please note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

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