

**KCNRG Antibody (C-term) Blocking peptide**  
**Synthetic peptide**  
**Catalog # BP11851b****Specification**

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**KCNRG Antibody (C-term) Blocking peptide - Product Information**

Primary Accession [Q8N5I3](#)

**KCNRG Antibody (C-term) Blocking peptide - Additional Information**

**Gene ID** 283518

**Other Names**

Potassium channel regulatory protein, Potassium channel regulator, Protein CLLD4, KCNRG, CLLD4

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**KCNRG Antibody (C-term) Blocking peptide - Protein Information**

**Name** KCNRG

**Synonyms** CLLD4

**Function**

Inhibits potassium fluxes in cells. May regulate Kv1 family channel proteins by retaining a fraction of channels in endomembranes.

**Cellular Location**

Endoplasmic reticulum

**Tissue Location**

Ubiquitous in normal tissues and expressed in some tumor tissues.

**KCNRG Antibody (C-term) Blocking peptide - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

**KCNRG Antibody (C-term) Blocking peptide - Images****KCNRG Antibody (C-term) Blocking peptide - Background**

The protein encoded by this gene is a regulatory subunit of the AMP-activated protein kinase (AMPK). AMPK is a heterotrimer consisting of an alpha catalytic subunit, and non-catalytic beta and gamma subunits. AMPK is an important energy-sensing enzyme that monitors cellular energy status. In response to cellular metabolic stresses, AMPK is activated, and thus phosphorylates and inactivates acetyl-CoA carboxylase (ACC) and beta-hydroxy-beta-methylglutaryl-CoA reductase (HMGCR), key enzymes involved in regulating de novo biosynthesis of fatty acid and cholesterol. This subunit is one of the gamma regulatory subunits of AMPK. Alternatively spliced transcript variants encoding distinct isoforms have been observed.

**KCNRG Antibody (C-term) Blocking peptide - References**

Jablonski, K.A., et al. Diabetes 59(10):2672-2681(2010) Bailey, S.D., et al. Diabetes Care 33(10):2250-2253(2010) Jassim, G., et al. Pharmacopsychiatry (2010) In press : Ruano, G., et al. Pharmacogenomics 11(7):959-971(2010) McGeachie, M., et al. Circulation 120(24):2448-2454(2009)