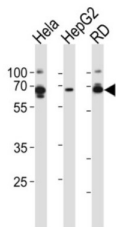


## 5'-AMP-Activated Protein Kinase Subunit Gamma-3 (PRKAG3) Antibody

Catalogue No.: abx029135



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. It is dominantly expressed in skeletal muscle. Studies of the pig counterpart suggest that this subunit may play a key role in the regulation of energy metabolism in skeletal muscle. [provided by RefSeq].

|                               |                                                                                                          |
|-------------------------------|----------------------------------------------------------------------------------------------------------|
| <b>Target:</b>                | 5'-AMP-Activated Protein Kinase Subunit Gamma-3 (PRKAG3)                                                 |
| <b>Clonality:</b>             | Polyclonal                                                                                               |
| <b>Reactivity:</b>            | Human                                                                                                    |
| <b>Tested Applications:</b>   | ELISA, WB                                                                                                |
| <b>Host:</b>                  | Rabbit                                                                                                   |
| <b>Recommended dilutions:</b> | WB: 1/1000. Optimal dilutions/concentrations should be determined by the end user.                       |
| <b>Conjugation:</b>           | Unconjugated                                                                                             |
| <b>Immunogen:</b>             | KLH-conjugated synthetic peptide between 426-454 amino acids from the C-terminal region of human PRKAG3. |
| <b>Isotype:</b>               | IgG                                                                                                      |
| <b>Form:</b>                  | Liquid                                                                                                   |
| <b>Purification:</b>          | Purified through a protein A column, followed by peptide affinity purification.                          |
| <b>Storage:</b>               | Aliquot and store at -20°C. Avoid repeated freeze/thaw cycles.                                           |

# Datasheet

Version: 5.0.0  
Revision date: 18 Mar 2025



**UniProt Primary AC:** Q9UGI9 ([UniProt](#), [ExPASy](#))

**Gene Symbol:** PRKAG3

**GeneID:** [53632](#)

**OMIM:** [604976](#)

**NCBI Accession:** NP\_059127.2

**KEGG:** hsa:53632

**String:** [9606.ENSP00000397133](#)

**Molecular Weight:** Calculated MW: 54.3 kDa

**Buffer:** PBS containing 0.09% sodium azide.

**Specificity:** Predicted to react with Mouse and Cow PRKAG3.

**Note:** THIS PRODUCT IS FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC, THERAPEUTIC OR COSMETIC PROCEDURES. NOT FOR HUMAN OR ANIMAL CONSUMPTION.

For Reference Only