

Datasheet for ABIN2789710
anti-PRKAG3 antibody (N-Term)



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Overview

Quantity:	100 µL
Target:	PRKAG3
Binding Specificity:	N-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PRKAG3 antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Sequence:	ENSSSWPSPA VTSSSERIRG KRRAKALRWT RQKSVEEGEP PGQGEGPRSR
Predicted Reactivity:	Human: 100%
Characteristics:	This is a rabbit polyclonal antibody against PRKAG3. It was validated on Western Blot.
Purification:	Affinity Purified

Target Details

Target:	PRKAG3
Alternative Name:	PRKAG3 (PRKAG3 Products)
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

Target Details

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.

Alias Symbols: AMPKG3

Protein Interaction Partner: BAG3, KLC1, CRYAB, NGRN, LMCD1, PRKAA1, PRKAB2, PRKAB1,
Protein Size: 489

Molecular Weight:	54 kDa
Gene ID:	53632
NCBI Accession:	NM_017431 , NP_059127
UniProt:	Q9UGI9
Pathways:	AMPK Signaling , Cellular Glucan Metabolic Process , Warburg Effect

Application Details

Application Notes:	Optimal working dilutions should be determined experimentally by the investigator.
Comment:	Antigen size: 489 AA
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	Lot specific
Buffer:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09 % (w/v) sodium azide and 2 % sucrose.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freeze-thaw cycles.

Handling

Storage:	-20 °C
Storage Comment:	For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.

Images

