Datasheet for ABIN7142669

# anti-PRKAG1 antibody (AA 1-331) (FITC)

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## Overview

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|---|---|
| Quantity: | 100 µg |
| Target: | PRKAG1 |
| Binding Specificity: | AA 1-331 |
| Reactivity: | Human |
| Host: | Rabbit |
| Clonality: | Polyclonal |
| Conjugate: | This PRKAG1 antibody is conjugated to FITC |
| Application: | Please inquire |

## Product Details

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| Immunogen: | Recombinant Human 5\'-AMP-activated protein kinase subunit gamma-1 protein (1-331AA) |
| Isotype: | IgG |
| Cross-Reactivity: | Human |
| Purification: | >95%, Protein G purified |

## Target Details

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|---|---|
| Target: | PRKAG1 |
| Alternative Name: | PRKAG1 (PRKAG1 Products) |
| Background: | Background: AMP/ATP-binding subunit of AMP-activated protein kinase (AMPK), an energy sensor protein kinase that plays a key role in regulating cellular energy metabolism. In response |

## Target Details

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| | to reduction of intracellular ATP levels, AMPK activates energy-producing pathways and inhibits energy-consuming processes: inhibits protein, carbohydrate and lipid biosynthesis, as well as cell growth and proliferation. AMPK acts via direct phosphorylation of metabolic enzymes, and by longer-term effects via phosphorylation of transcription regulators. Also acts as a regulator of cellular polarity by remodeling the actin cytoskeleton, probably by indirectly activating myosin. Gamma non-catalytic subunit mediates binding to AMP, ADP and ATP, leading to activate or inhibit AMPK: AMP-binding results in allosteric activation of alpha catalytic subunit (PRKAA1 or PRKAA2) both by inducing phosphorylation and preventing dephosphorylation of catalytic subunits. ADP also stimulates phosphorylation, without stimulating already phosphorylated catalytic subunit. ATP promotes dephosphorylation of catalytic subunit, rendering the AMPK enzyme inactive.<br>Aliases: 5' AMP activated protein kinase gamma 1 subunit antibody, 5' AMP activated protein kinase subunit gamma 1 antibody, 5''-AMP-activated protein kinase subunit gamma-1 antibody, AAKG1_HUMAN antibody, AMP activated protein kinase noncatalytic gamma 1 subunit antibody, AMPK gamma 1 chain antibody, AMPK gamma1 antibody, AMPK subunit gamma-1 antibody, AMPKg antibody, MGC8666 antibody, PRKAG 1 antibody, PRKAG1 antibody, Protein kinase AMP activated gamma 1 non catalytic subunit antibody, protein kinase, AMP-activated, noncatalytic gamma-1 antibody |
| UniProt: | P54619 |
| Pathways: | AMPK Signaling, Regulation of Carbohydrate Metabolic Process, Warburg Effect |

## Application Details

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| Restrictions: | For Research Use only |

## Handling

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|---|---|
| Format: | Liquid |
| Buffer: | Preservative: 0.03 % Proclin 300<br>Constituents: 50 % Glycerol, 0.01M PBS, pH 7.4 |
| Preservative: | ProClin |
| Precaution of Use: | This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only. |
| Storage: | -20 °C,-80 °C |

## Handling

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|---|---|
| Storage Comment: | Upon receipt, store at -20°C or -80°C. Avoid repeated freeze. |

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