

## Product datasheet for **AP20529PU-N**

### AMPK gamma 1 (PRKAG1) Rabbit Polyclonal Antibody

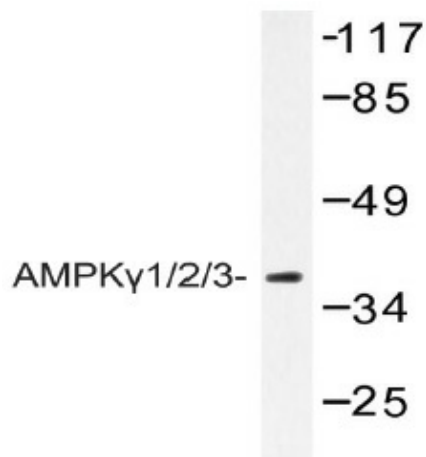
#### Product data:

Product Type:	Primary Antibodies
Applications:	IF, WB
Recommended Dilution:	<b>Western blot:</b> 1/500 - 1/1000. <b>Immunofluorescence:</b> 1/50 - 1/200.
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Specificity:	This antibody detects endogenous levels of AMPKgamma1/2/3 protein. (region surrounding Lys78)
Formulation:	Phosphate buffered saline (PBS), pH 7.2. State: Aff - Purified State: Liquid purified Ig fraction Preservative: 15 mM sodium azide
Concentration:	1.0 mg/ml
Purification:	Affinity chromatography (> 95% (by SDS-PAGE)
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	~40,42 kDa
Gene Name:	Homo sapiens protein kinase AMP-activated non-catalytic subunit gamma 1 (PRKAG1), transcript variant 1
Database Link:	<a href="#">Entrez Gene 19082 Mouse</a> <a href="#">Entrez Gene 25520 Rat</a> <a href="#">Entrez Gene 5571 Human P54619</a>



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- Background:** The 5-AMP activated protein kinase (AMPK), a member of the SNF1 (sucrose non fermentor) kinase family, is a heterotrimeric protein comprise of alpha (63 kDa), beta (30 kDa) and gamma (38 kDa) subunits. The alpha subunit is the catalytic subunit, while beta and gamma are non catalytic subunits (although they have been found to interact with the active subunit in liver). AMPK regulates fatty acid and sterol synthesis by phosphorylation of acetyl-CoA as well as cholesterol synthesis via phosphorylation and inactivation of hydroxymethylglutaryl-CoA reductase. AMPK is activated by AMP and can be also regulated by treatment with purified protein phosphatase in vitro.
- Synonyms:** AMPKg, PRKAG1, PRKAG2, PRKAG3, H91620p, AMPKG3, AMPK gamma-1, AMPK gamma-2, AMPK gamma-3
- Protein Families:** Druggable Genome
- Protein Pathways:** Adipocytokine signaling pathway, Hypertrophic cardiomyopathy (HCM), Insulin signaling pathway

**Product images:**

Western blot (WB) analysis of AMPKgamma1/2/3 antibody (Cat.-No.: AP20529PU-N) in extracts from 293 cells.