

Product datasheet for **TA307890**

PRKAG2 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IF, IHC, WB
Recommended Dilution:	ICC/IF:1:100-1:1000; IHC:1:100-1:1000; WB:1:500-1:3000
Reactivity:	Human, Mouse
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Recombinant fragment corresponding to a region within amino acids 192 and 569 of AMPK gamma 2 (Uniprot ID#Q9UGJ0)
Formulation:	0.1M Tris, 0.1M Glycine, 10% Glycerol (pH7). 0.01% Thimerosal was added as a preservative.
Concentration:	lot specific
Purification:	Purified by antigen-affinity chromatography.
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	38 kDa
Gene Name:	protein kinase AMP-activated non-catalytic subunit gamma 2
Database Link:	NP_001035723 Entrez Gene 108099 Mouse Entrez Gene 51422 Human Q9UGJ0



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Background:

AMP-activated protein kinase (AMPK) is a heterotrimeric protein composed of a catalytic alpha subunit, a noncatalytic beta subunit, and a noncatalytic regulatory gamma subunit. Various forms of each of these subunits exist, encoded by different genes. AMPK is an important energy-sensing enzyme that monitors cellular energy status and functions by inactivating key enzymes involved in regulating de novo biosynthesis of fatty acid and cholesterol. This gene is a member of the AMPK gamma subunit family and encodes a protein with four cystathionine beta-synthase domains. Mutations in this gene have been associated with ventricular pre-excitation (Wolff-Parkinson-White syndrome), progressive conduction system disease and cardiac hypertrophy. Alternate transcriptional splice variants, encoding different isoforms, have been characterized. [provided by RefSeq]

Synonyms:

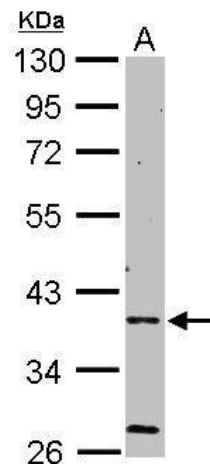
AAKG; AAKG2; CMH6; H91620p; WPWS

Protein Families:

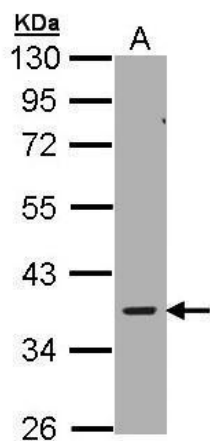
Druggable Genome

Protein Pathways:

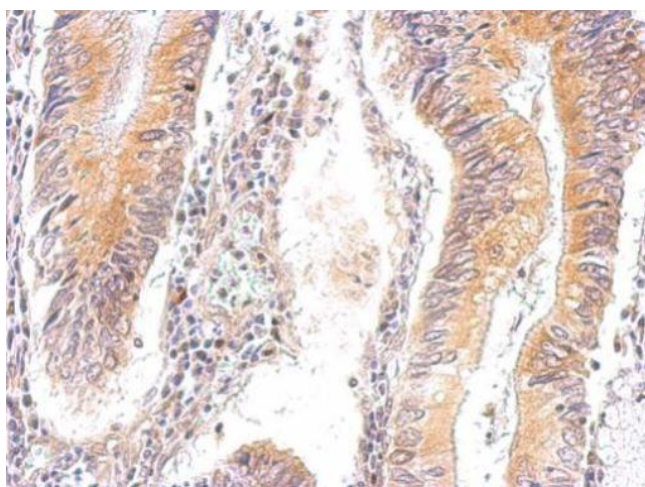
Adipocytokine signaling pathway, Hypertrophic cardiomyopathy (HCM), Insulin signaling pathway

Product images:

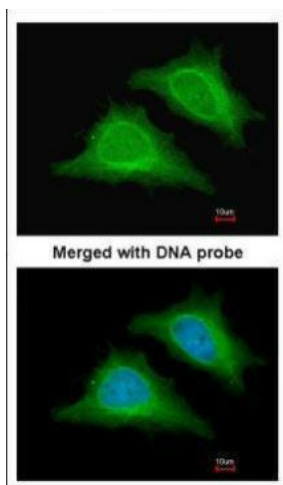
Sample (50 ug of whole cell lysate). A: Mouse brain. 10% SDS PAGE. TA307890 diluted at 1:1000.



Sample (30 ug of whole cell lysate). A: HeLa S3. 10% SDS PAGE. TA307890 diluted at 1:1000



AMPK gamma 2 antibody detects PRKAG2 protein at cytosol on gastric carcinoma by immunohistochemical analysis. Sample: Paraffin-embedded gastric carcinoma tissue. AMPK gamma 2 antibody (TA307890) dilution: 1:500.



Immunofluorescence analysis of paraformaldehyde-fixed HeLa, using AMPK gamma-2 (TA307890) antibody at 1:200 dilution.