

AMPK gamma 1 Polyclonal Antibody

Catalog number: 10290-1-AP

Size: 43 µg/150 µl

Source: Rabbit

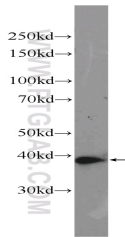
Isotype: IgG

Synonyms:

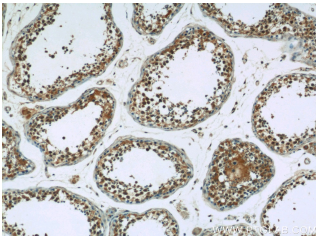
PRKAG1; AMPK gamma1,

AMPK subunit gamma 1,

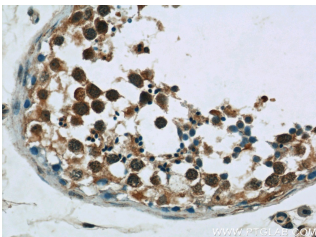
AMPKG, PRKAG1



K-562 cells were subjected to SDS PAGE followed by western blot with 10290-1-AP (PRKAG1 Antibody) at dilution of 1:1000



Immunohistochemistry of paraffin-embedded human testis tissue slide using 10290-1-AP (PRKAG1 Antibody) at dilution of 1:50 (under 10x lens)



Immunohistochemistry of paraffin-embedded human testis tissue slide using 10290-1-AP (PRKAG1 Antibody) at dilution of 1:50 (under 40x lens)

Background

Protein kinase, AMP-activated, gamma 1 non-catalytic subunit (PRKAG1, synonyms: AMPKG, MGC8666) is a regulatory subunit of the AMP-activated protein kinase (AMPK). AMPK is a heterotrimer consisting of an catalytic subunit, and non-catalytic and 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 -hydroxy-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.

Applications

Tested applications:	ELISA, WB, IHC
Cited applications:	WB
Species specificity:	Human, Mouse, Rat; other species not tested.
Cited species:	Human
Calculated AMPK gamma 1 MW:	38kd
Observed AMPK gamma 1 MW:	35-38 kDa
Positive WB detected in	K-562 cells, HeLa cells, Jurkat cells
Positive IHC detected in	Human testis tissue, human skeletal muscle tissue
Recommended dilution:	WB: 1:500-1:5000 IHC: 1:20-1:200

Application key: WB = Western blotting, IHC = Immunohistochemistry, IF = Immunofluorescence, IP = Immunoprecipitation

Immunogen information

Immunogen:	Ag0302
GenBank accession number:	BC000358
Gene ID (NCBI):	5571
Full name:	Protein kinase, AMP-activated, gamma 1 non-catalytic subunit

Product information

Purification method:	Antigen affinity purification
Storage:	PBS with 0.1% sodium azide and 50% glycerol pH 7.3. Store at -20°C.