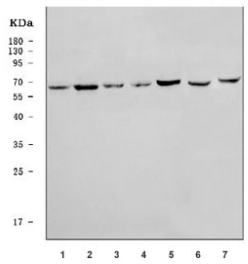
AMPK gamma 2 Antibody / PRKAG2 (RQ7196)

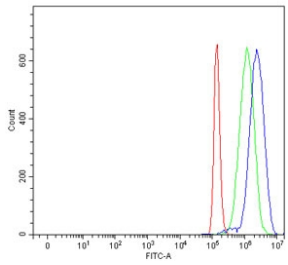
Catalog No.	Formulation	Size
RQ7196	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	Q9UGJ0
Applications	Western blot: 0.5-1ug/ml Flow cytometry: 1-3ug/million cells Direct ELISA: 0.1-0.5ug/ml
Limitations	This AMPK gamma 2 antibody is available for research use only.



Western blot testing of 1) human 293T, 2) human HeLa, 3) human placenta, 4) human U-87 MG, 5) human A431, 6) rat heart and 7) mouse NIH 3T3 cell lysate with AMPK gamma 2 antibody. Predicted molecular weight ~63 kDa.



Flow cytometry testing of human PC-3 cells with AMPK gamma 2 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= AMPK gamma 2 antibody.

Description

5'-AMP-activated protein kinase subunit gamma-2 is an enzyme that in humans is encoded by the PRKAG2 gene. 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. Mutations in this gene have been associated with Wolff-Parkinson-White syndrome, familial hypertrophic cardiomyopathy, and glycogen storage disease of the heart. Alternate transcriptional splice variants, encoding different isoforms, have been characterized.

Application Notes

Optimal dilution of the AMPK gamma 2 antibody should be determined by the researcher.

Immunogen

Recombinant human protein (amino acids K24-H530) was used as the immunogen for the AMPK gamma 2 antibody.

Storage

After reconstitution, the AMPK gamma 2 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

Copyright © NSJ Bioreagents. All rights reserved.