

AMPK Beta 2 Monoclonal antibody

Catalog Number: 66579-1-Ig

Basic Information

Catalog Number:

66579-1-Ig

Size:

1200 µg/ml

Source:

Mouse

Isotype:

IgG1

Immunogen Catalog Number:

AG5806

GenBank Accession Number:

BC053610

GeneID (NCBI):

5565

UNIPROT ID:

O43741

Full Name:

protein kinase, AMP-activated, beta 2
non-catalytic subunit

Calculated MW:

30 kDa

Observed MW:

33 kDa

Purification Method:

Protein G purification

CloneNo.:

2D5C1

Recommended Dilutions:

WB 1:1000-1:3000

IF/ICC 1:400-1:1600

Applications

Tested Applications:

IF/ICC, WB, ELISA

Species Specificity:

Human, mouse, rat

Positive Controls:

WB: A375 cells, A431 cells, HeLa cells, A549 cells,
human brain tissue, rat brain tissue, mouse brain
tissue

IF/ICC: HeLa cells,

Background Information

AMPK beta 2 is a regulatory subunit of the AMP-activated protein kinase (AMPK), which is a heterotrimer consisting of an alpha catalytic subunit, and non-catalytic beta and gamma 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 beta-hydroxy beta-methylglutaryl-CoA reductase (HMGCR), key enzymes involved in regulating de novo biosynthesis of fatty acid and cholesterol. AMPK beta 2 may be a positive regulator of AMPK activity. It is highly expressed in skeletal muscle and thus may have tissue-specific roles.

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

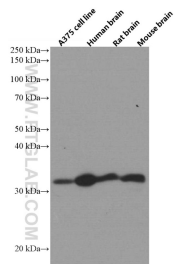
For technical support and original validation data for this product please contact:

T: 4006900926

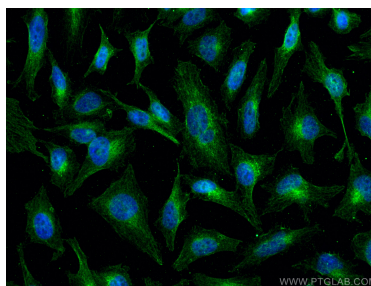
E: Proteintech-CN@ptglab.comW: ptgcn.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 66579-1-Ig (AMPK beta 2 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using AMPK Beta 2 antibody (66579-1-Ig, Clone: 2D5C1) at dilution of 1:800 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).