

For Research Use Only

AMPK Beta 2 Monoclonal antibody

Catalog Number: 66579-1-Ig



Basic Information

Catalog Number: 66579-1-Ig	GenBank Accession Number: BC053610	Purification Method: Protein G purification
Size: 150ul , Concentration: 1200 µg/ml by Nanodrop and 1000 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 5565	CloneNo.: 2D5C1
Source: Mouse	Full Name: protein kinase, AMP-activated, beta 2 non-catalytic subunit	Recommended Dilutions: WB 1:1000-1:3000 IF 1:400-1:1600
Isotype: IgG1	Calculated MW: 30 kDa	
Immunogen Catalog Number: AG5806	Observed MW: 33 kDa	

Applications

Tested Applications:

IF, WB, ELISA

Species Specificity:

Human, mouse, rat

Positive Controls:

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

IF : 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

*** 20ul sizes contain 0.1% BSA

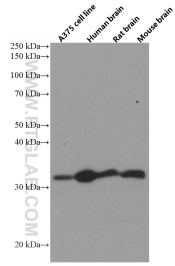
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free
in USA), or 1(312) 455-8498 (outside USA)

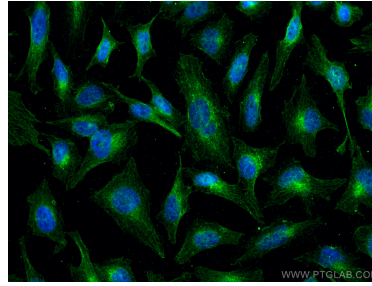
E: proteintech@ptglab.com
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This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

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).