

# CoraLite®594-conjugated AMPK Beta 2 Monoclonal antibody

Catalog Number: **CL594-66579**

## Basic Information

<b>Catalog Number:</b> CL594-66579	<b>GenBank Accession Number:</b> BC053610	<b>Purification Method:</b> Protein G purification
<b>Size:</b> 1000 µg/ml	<b>GeneID (NCBI):</b> 5565	<b>CloneNo.:</b> 2D5C1
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> O43741	<b>Recommended Dilutions:</b> IF/ICC 1:50-1:500
<b>Isotype:</b> IgG1	<b>Full Name:</b> protein kinase, AMP-activated, beta 2 non-catalytic subunit	<b>Excitation/Emission maxima wavelengths:</b> 588 nm / 604 nm
<b>Immunogen Catalog Number:</b> AG5806	<b>Calculated MW:</b> 30 kDa	
	<b>Observed MW:</b> 33 kDa	

## Applications

<b>Tested Applications:</b> IF/ICC	<b>Positive Controls:</b> IF/ICC : HeLa cells,
<b>Species Specificity:</b> Human, mouse, rat	

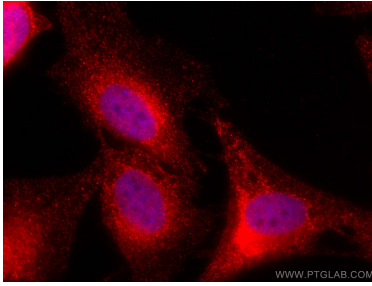
## Background Information

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. Avoid exposure to light. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.  
**Aliquoting is unnecessary for -20°C storage**

## Selected Validation Data



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using CoraLite®594 AMPK Beta 2 antibody (CL594-66579, Clone: 2D5C1 ) at dilution of 1:200.