

## Basic Information

<b>Product Name</b>	Anti-AMPK Beta 2/PRKAB2 DyLight 488 Conjugated Antibody
<b>Gene Name</b>	PRKAB2
<b>Source</b>	Mouse
<b>Clonality</b>	Monoclonal
<b>Isotype</b>	IgG2b
<b>Species Reactivity</b>	human
<b>Tested Application</b>	FCM
<b>Contents</b>	Each vial contains 50% glycerol, 0.9% NaCl, 0.2% Na <sub>2</sub> HPO <sub>4</sub> , 0.02% NaN <sub>3</sub> .
<b>Immunogen</b>	A synthetic peptide corresponding to a sequence at the N-terminus of human AMPK beta 2, different from the related mouse sequence by three amino acids, and from the related rat sequence by two amino acids.
<b>Fluorophores</b>	A <sub>max</sub> =488nm; E <sub>max</sub> =515-545nm
<b>Conjugate</b>	DyLight 488
<b>Concentration</b>	500ug/ml
<b>Purification</b>	protein G purified.
<b>Dilution Ratios</b>	Flow cytometry (FCM):1-3 µg/1x10 <sup>6</sup> cells

## Storage

At -20°C for one year from date of receipt. Avoid repeated freezing and thawing. Protect from light.

## Background Information

5'-AMP-activated protein kinase subunit beta-2 is an enzyme that in humans is encoded by the PRKAB2 gene. The protein encoded by this gene is a regulatory subunit of the AMP-activated protein kinase (AMPK). AMPK is a heterotrimer consisting of an alpha catalytic subunit, and non-catalytic beta and gamma subunits. It 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. This subunit may be a positive regulator of AMPK activity. It is highly expressed in skeletal muscle and thus may have tissue-specific roles. Multiple alternatively spliced transcript variants have been found for this gene.

## Selected Validation Data

Product datasheet

**Anti-AMPK Beta 2/PRKAB2 DyLight  
488 Conjugated Antibody**

**Catalog Number: M05077-Dyl488**

**BOSTER**

antibody and ELISA experts

**BOSTER BIOLOGICAL TECHNOLOGY**

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