bsm-33866M **[Primary Antibody]**

AMPK beta 2 Mouse mAb

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DATASHEET

Host: Mouse
Isotype: IgG
Clonality: Monoclonal
CloneNo.: 5A3
GeneID: 5565
SWISS: O43741
Target: AMPK beta 2
Purification: affinity purified by Protein A
Concentration: 1mg/ml
Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Background: PRKAB2 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. AMPK is an important energy-sensing enzyme that monitors cellular energy status and plays a role in protecting cells from stresses that cause ATP depletion by switching off ATP-consuming biosynthetic pathways. AMPK is responsible for the regulation of fatty acid synthesis by phosphorylation of acetyl-CoA carboxylase (ACC). It also regulates cholesterol synthesis via phosphorylation and inactivation of hydroxymethylglutaryl-CoA reductase (HMGCR) and hormone-sensitive lipase. PRKAB2 may be a positive regulator of AMPK activity.

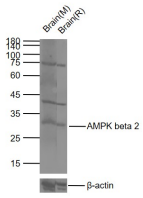
Applications: **WB** (1:1000-2000)
IHC-P (1:100-500)
IHC-F (1:400-800)
IF (1:100-500)

Reactivity: Mouse, Rat
(predicted: Human)

Predicted MW.: 30 kDa

Subcellular Location: Cytoplasm ,Nucleus

VALIDATION IMAGES



Sample: Lane 1: Mouse Brain lysates Lane 2: Rat Brain lysates Primary: Anti- AMPK beta 2 (bsm-33866M) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Mouse IgG at 1/20000 dilution Predicted band size: 30 kDa Observed band size: 30 kDa