

Human/Mouse AMPKβ2 Antibody

Monoclonal Rat IgG_{2B} Clone # 376938 Catalog Number: MAB3808

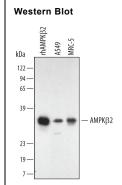
DESCRIPTION					
Species Reactivity	ivity Human/Mouse				
Specificity	Detects human and mouse AMPKβ2 in Western blots. No cross-reactivity with recombinant human AMPKβ1 is observed.				
Source	Monoclonal Rat IgG _{2B} Clone # 376938				
Purification	Protein A or G purified from hybridoma culture supernatant				
Immunogen	E. coli-derived recombinant human AMPKβ2 Met1-Ile272 Accession # 043741				
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.				

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

	Recommended Concentration	Sample
Western Blot	2 μg/mL	See Below

DATA



Detection of Human/Mouse AMPK β 2 by Western Blot. Western blot shows lysates of A549 human lung carcinoma cell line and MRC-5 human embryonic lung fibroblast cell line. PVDF membrane was probed with 2 μ g/mL Rat Anti-Human/Mouse AMPK β 2 Monoclonal Antibody (Catalog # MAB3808) followed by HRP-conjugated Anti-Rat IgG Secondary Antibody (Catalog # HAF-005). For additional reference, recombinant human AMPK β 2 (0.5 ng) was included. A specific band for AMPK beta 2 was detected at approximately 34 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot

PREPAR	ΚΟΙΤΑ	AND.	STOR	AGE

Reconstitution Reconstitute at 0.5 mg/mL in sterile PBS

ShippingThe product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

*Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C

- 12 months from date of receipt, -20 to -70 °C as supplied.
- 1 month, 2 to 8 °C under sterile conditions after reconstitution
- 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

AMP-activated protein kinase (AMPK) is a heterotrimeric complex consisting of a catalytic α subunit and regulatory β and γ subunits. Each subunit exists as alternate isoforms (α 1, α 2, β 1, β 2, γ 1, γ 2, γ 3), with all 12 combinations able to form complexes. The β 1 subunit is expressed at higher levels than the β 2subunit in liver, while β 2 is more abundant in skeletal muscle. AMPK's role in metabolic regulation has implicated this serine/threonine kinase as a therapeutic target in heart disease, obesity, and diabetes.

Rev. 2/7/2018 Page 1 of 1

