

## **Human AMPKβ2 Antibody**

Monoclonal Mouse IgG<sub>2B</sub> Clone # 1092615 Catalog Number: MAB11639

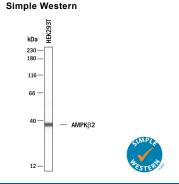
DESCRIPTION	
Species Reactivity	Human
Specificity	Detects recombinant human AMPKβ2 protein in Direct ELISA.
Source	Monoclonal Mouse IgG <sub>2B</sub> Clone # 1092615
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	E. coli- derived recombinant human AMPKbeta2 Met1-lle272 Accession # O43741
Formulation	Lyophilized from a 0.2 μm filtered solution in PBS with Trehalose.

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.				
Western Blot	2 μg/mL	HepG2 human hepatocellular carcinoma cell line, NTera-2 human testicular embryonic carcinoma cell line and U2OS human osteosarcoma		
Simple Western	20 µg/mL	HEK293T human embryonic kidney cell line		

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DATA

Detection of Human AMPKβ2 by Western Blot. Western Blot shows lysates of HepG2 human hepatocellular carcinoma cell line. NTera-2 human testicular embryonic carcinoma cell line and U2OS human osteosarcoma cell line. PVDF membrane was probed with 2 µg/ml of Mouse Anti-Human AMPKB2 Monoclonal Antibody (Catalog # MAB11639) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF018). A specific band was detected for AMPKβ2 at approximately 32 kDa (as indicated). This experiment was conducted under reducing conditions and using Western Blot Buffer Group 1.



Detection of Human AMPKβ2 by Simple Western M. Simple Western Shows lysates of HEK293T human embryonic kidney cell line, loaded at 0.5 mg/ml. A specific band was detected for AMPKβ2 at approximately 38 kDa (as indicated) using 20 μg/mL of Mouse Anti-Human AMPKβ2 Monoclonal Antibody (Catalog # MAB11639). This experiment was conducted under reducing conditions and using the 12-230 kDa separation system.

Reconstitution	Reconstitute lyophilized material at 0.2 mg/ml in sterile PBS. For liquid material, refer to CoA for concentration.
Shipping	Lyophilized product is shipped at ambient temperature. Liquid small pack size (-SP) is shipped with polar packs. Upon receipt, store immediately at the temperature recommended below.
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles.  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  $\alpha$  subunit and regulatory  $\beta$  and  $\gamma$  subunits. Each subunit exists as alternate isoforms ( $\alpha$ 1,  $\alpha$ 2,  $\beta$ 1,  $\beta$ 2,  $\gamma$ 1,  $\gamma$ 2,  $\gamma$ 3), with all 12 combinations able to form complexes. The  $\beta$ 1 subunit is expressed at higher levels than the  $\beta$ 2subunit in liver, while  $\beta$ 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.

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