Human/Mouse/Rat AMPKα2 Antibody

Antigen Affinity-purified Polyclonal Goat IgG
Catalog Number: AF2850

DESCRIPTION

Species Reactivity	Human/Mouse/Rat
Specificity	Detects human, mouse, and rat AMPKα2 in Western blots. In Western blots, less than 1% cross-reactivity with recombinant human AMPKα1 is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	*E. coli*-derived recombinant human AMPKα2 Phe340-Arg552 Accession # P54646
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 as a 0.2 μm filtered solution in PBS.

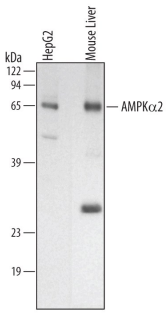
APPLICATIONS

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	1 µg/mL	See Below
Immunocytochemistry	5-15 µg/mL	See Below
Immunohistochemistry	5-15 µg/mL	Perfusion fixed frozen sections of mouse liver
Simple Western	10 µg/mL	See Below

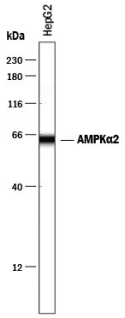
DATA

Western Blot



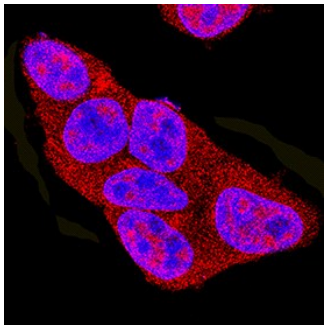
Detection of Human and Mouse AMPKα2 by Western Blot. Western blot shows lysates of HepG2 human hepatocellular carcinoma cell line and mouse liver tissue. PVDF membrane was probed with 1 µg/mL of Goat Anti-Human/Mouse/Rat AMPKα2 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF2850) followed by HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF109). A specific band was detected for AMPKα2 at approximately 63 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

Simple Western



Detection of Human AMPKα2 by Simple Western™. Simple Western lane view shows lysates of HepG2 human hepatocellular carcinoma cell line, loaded at 0.2 mg/mL. A specific band was detected for AMPKα2 at approximately 63 kDa (as indicated) using 10 µg/mL of Goat Anti-Human/Mouse/Rat AMPKα2 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF2850) followed by 1:50 dilution of HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF109). This experiment was conducted under reducing conditions and using the 12-230 kDa separation system.

Immunocytochemistry



AMPKα2 in HEK293 Human Cell Line. AMPKα2 was detected in immersion fixed HEK293 human embryonic kidney cell line using Goat Anti-Human/Mouse/Rat AMPKα2 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF2850) at 5 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Goat IgG Secondary Antibody (red; Catalog # NL001) and counterstained with DAPI (blue). Specific staining was localized to nuclei and cytoplasm. View our protocol for Fluorescent ICC Staining of Cells on Coverslips.

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.
Shipping	The 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
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.

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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 (α1, α2, β1, β2, γ1, γ2, γ3), with all 12 combinations able to form complexes. The catalytic α subunit of AMPK is activated allosterically by AMP, and by phosphorylation via the AMPK kinase LKB1. 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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