

DESCRIPTION

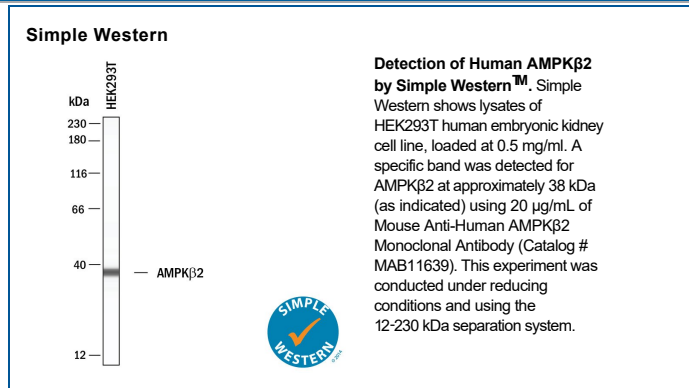
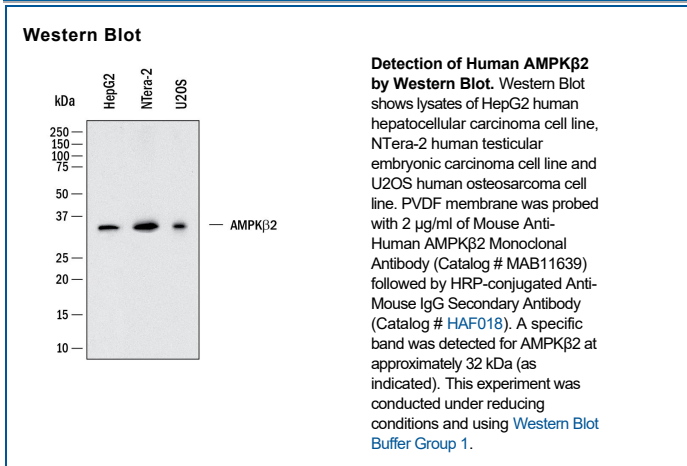
Species Reactivity	Human
Specificity	Detects recombinant human AMPK β 2 protein in Direct ELISA.
Source	Monoclonal Mouse IgG _{2B} Clone # 1092615
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> - derived recombinant human AMPKbeta2 Met1-Ile272 Accession # O43741
Formulation	Lyophilized from a 0.2 μ m 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.

	Recommended Concentration	Sample
Western Blot	2 μ g/mL	HepG2 human hepatocellular carcinoma cell line, NTera-2 human testicular embryonic carcinoma cell line and U2OS human osteosarcoma
Simple Western	20 μ g/mL	HEK293T human embryonic kidney cell line

DATA



PREPARATION AND STORAGE

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	<p>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</p> <ul style="list-style-type: none"> • 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 2 subunit 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.