

DESCRIPTION

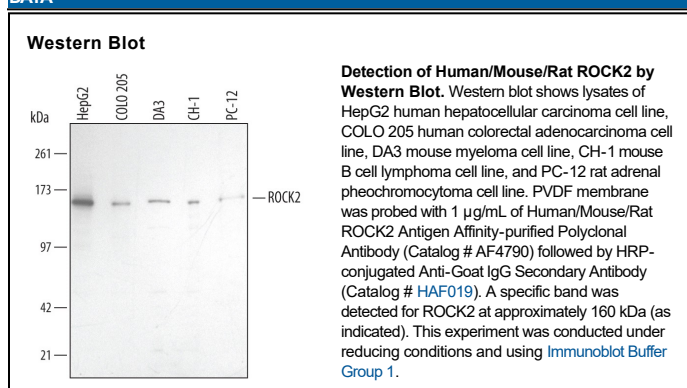
Species Reactivity	Human/Mouse/Rat
Specificity	Detects human, mouse and rat ROCK2 in Western blots.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human ROCK2 Ile641-Ala846 Accession # O75116
Formulation	Lyophilized from a 0.2 µm filtered 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	1 µg/mL	See Below

DATA



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. <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

ROCK2/II (Rho-associated protein kinase 2; also Rho-kinase α) is a member of the AGC serine/threonine protein kinase family. ROCK2 is a downstream target of activated RhoA. Its activation results in myosin phosphorylation with subsequent muscle contraction. Human ROCK2 is 1388 amino acids (aa) in length, and appears to be present as a dimer. It contains a protein kinase domain (aa 92-354), a coiled-coil region (aa 429-1131) and a zinc-finger region (aa 1260-1315). Two isoforms show an alternate start site at M686, and a three aa substitution for the N-terminal 444 amino acids. Over aa 641-846, human ROCK2 shares 94% and 96% aa identity with mouse and canine ROCK2, respectively.