

# **Human/Mouse/Rat ROCK2 Antibody**

Antigen Affinity-purified Polyclonal Goat IgG Catalog Number: AF4790

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	E. coli-derived recombinant human ROCK2 lle641-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.		

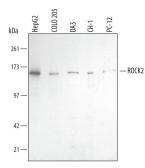
### APPLICATIONS

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

## Western Blot



Detection of Human/Mouse/Rat ROCK2 by Western Blot. Western blot shows lysates of HepG2 human hepatocellular carcinoma cell line, COLO 205 human colorectal adenocarcinoma cell line, DA3 mouse myeloma cell line, CH-1 mouse B cell lymphoma cell line, and PC-12 rat adrenal pheochromocytoma cell line. PVDF membrane was probed with 1 µg/mL of Human/Mouse/Rat ROCK2 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF4790) followed by HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF019). A specific band was detected for ROCK2 at approximately 160 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

# 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.

## BACKGROUND

ROCK2/II (Rho-associated protein kinase 2; also Rho-kinase  $\alpha$ ) 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.

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