

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
Conjugate	Alexa Fluor 700 Excitation Wavelength: 675-700 nm Emission Wavelength: 723 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

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 Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

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.

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