

Product datasheet for **AM00191PU-N**

ROCK1 Mouse Monoclonal Antibody [Clone ID: 12M03]

Product data:

Product Type:	Primary Antibodies
Clone Name:	12M03
Applications:	WB
Recommended Dilution:	Western Blot: 1-4 µg/ml. Jurkat cell lysate treated with Camptothecin (2µM for 6-8 hours) can be used as a Positive Control.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG
Clonality:	Monoclonal
Immunogen:	Synthetic peptide corresponding to the Caspase-3 cleavage site
Specificity:	The antibody has been selected for its ability to recognize the cleaved ROCK-1. It does not recognize the full length protein.
Formulation:	PBS, pH 7.2 containing 50% Glycerol, 1% BSA and 0.02% Thimerosal State: Purified State: Liquid purified IgG fraction
Concentration:	lot specific
Purification:	Protein G Chromatography
Conjugation:	Unconjugated
Storage:	Upon receipt, store (in aliquots) at -20°C to -80°C. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	Rho associated coiled-coil containing protein kinase 1
Database Link:	Entrez Gene 6093 Human Q13464



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Background:

ROCK-1 (Rho-associated coiled coil-containing protein kinase 1) has been found to be a new caspase-3 substrate. ROCK-1 consists of an amino-terminal kinase domain and an inhibitory cysteine/histidine-rich C-terminal domain. During apoptosis, ROCK-1 is cleaved by caspase-3 at the conserved DETD1113/G sequence and its C-terminal inhibitory domain is removed, resulting in deregulated and constitutive kinase activity. The caspase-3 mediated cleavage and activation of ROCK-1 induces phosphorylation of MLC and membrane blebbing, the early events in the execution phase of apoptosis.

Synonyms:

ROCK-1, p160ROCK, NY-REN-35