

# Recombinant Human ROCK1

Catalog No: #GP10747



Package Size: #GP10747-1 100ug

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## Description

Product Name	Recombinant Human ROCK1
Brief Description	Recombinant Protein
Immunogen Description	Fusion protein corresponding to a region derived from 1115-1354 amino acids of human Rho-associated, coiled-coil containing protein kinase 1
Target Name	Rho-associated, coiled-coil containing protein kinase 1
Other Names	ROCK-I; P160ROCK
Accession No.	Swissprot:Q13464Gene Accession:BC113114
Uniprot	Q13464
GenID	6093;
Storage	-20~-80°C, pH 7.6 PBS

## Background

This gene encodes a protein serine/threonine kinase that is activated when bound to the GTP-bound form of Rho. The small GTPase Rho regulates formation of focal adhesions and stress fibers of fibroblasts, as well as adhesion and aggregation of platelets and lymphocytes by shuttling between the inactive GDP-bound form and the active GTP-bound form. Rho is also essential in cytokinesis and plays a role in transcriptional activation by serum response factor. This protein, a downstream effector of Rho, phosphorylates and activates LIM kinase, which in turn, phosphorylates cofilin, inhibiting its actin-depolymerizing activity.

## References

Note: For in vitro research use only, not for diagnostic or therapeutic use. This product is not a medical device.

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