

## Product datasheet for **TA322616**

### ROCK1 Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	IHC
Recommended Dilution:	IHC: 25-100 Positive control: Human breast cancer Predicted cell location: Cytoplasm
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Fusion protein corresponding to a region derived from 1115-1354 amino acids of human Rho-associated, coiled-coil containing protein kinase 1
Formulation:	PBS pH7.3, 0.05% NaN <sub>3</sub> , 50% glycerol
Concentration:	lot specific
Purification:	Antigen affinity purification
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	Rho associated coiled-coil containing protein kinase 1
Database Link:	<a href="#">NP_005397</a> <a href="#">Entrez Gene 19877 Mouse</a> <a href="#">Entrez Gene 81762 Rat</a> <a href="#">Entrez Gene 6093 Human</a> <a href="#">Q13464</a>
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.



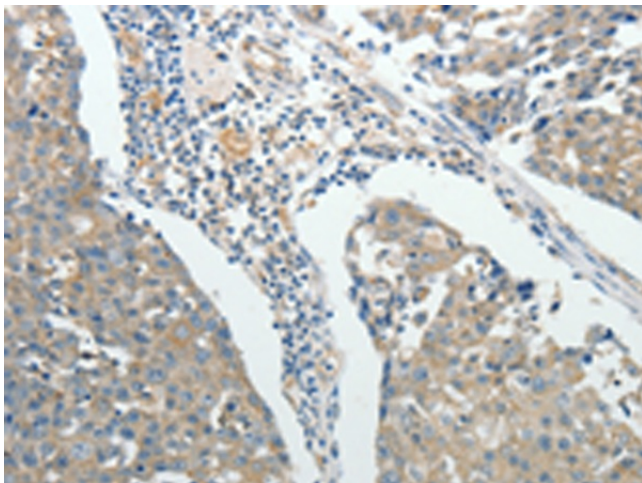
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**Synonyms:** P160ROCK; ROCK-I

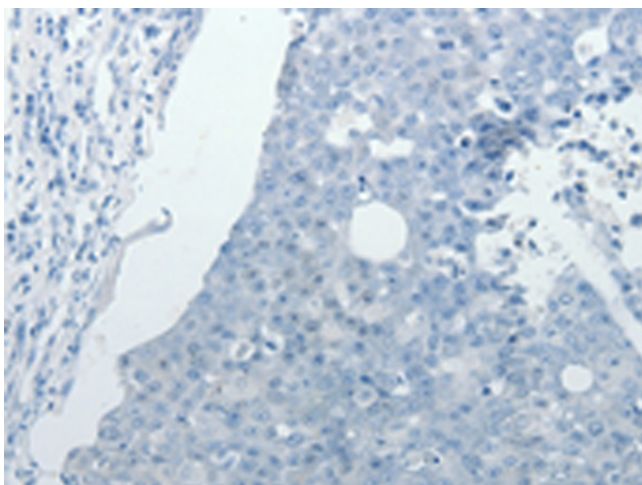
**Protein Families:** Druggable Genome, Protein Kinase

**Protein Pathways:** Axon guidance, Chemokine signaling pathway, Focal adhesion, Leukocyte transendothelial migration, Pathogenic Escherichia coli infection, Regulation of actin cytoskeleton, TGF-beta signaling pathway, Vascular smooth muscle contraction, Wnt signaling pathway

**Product images:**



Immunohistochemistry of paraffin-embedded Human breast cancer tissue using TA322616 (ROCK1 Antibody) at dilution 1/25 (Original magnification: x200)



Immunohistochemistry of paraffin-embedded Human breast cancer tissue using TA322616 (ROCK1 Antibody) at dilution 1/25, treated with fusion protein. (Original magnification: x200)