

Product datasheet for **TA322700**

ROCK2 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	WB: 500-2000 WB positive control: Mouse brain tissue lysate IHC: 50-200 Positive control: Human tonsil Predicted cell location: Cytoplasm
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Fusion protein corresponding to C terminal 300 amino acids of human Rho-associated, coiled-coil containing protein kinase 2
Formulation:	PBS pH7.3, 0.05% NaN ₃ , 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.
Predicted Protein Size:	161 kDa
Gene Name:	Rho associated coiled-coil containing protein kinase 2
Database Link:	NP_004841 Entrez Gene 19878 Mouse Entrez Gene 25537 Rat Entrez Gene 9475 Human O75116



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Background:

The protein encoded by this gene is a serine/threonine kinase that regulates cytokinesis; smooth muscle contraction; the formation of actin stress fibers and focal adhesions; and the activation of the c-fos serum response element. This protein; which is an isozyme of ROCK1 is a target for the small GTPase Rho. Protein kinase which is a key regulator of actin cytoskeleton and cell polarity. Involved in regulation of smooth muscle contraction; actin cytoskeleton organization; stress fiber and focal adhesion formation; neurite retraction; cell adhesion and motility via phosphorylation of ADD1; BRCA2; CNN1; EZR; DPYSL2; EP300; MSN; MYL9/MLC2; NPM1; RDX; PPP1R12A and VIM. Phosphorylates SORL1 and IRF4.

Synonyms:

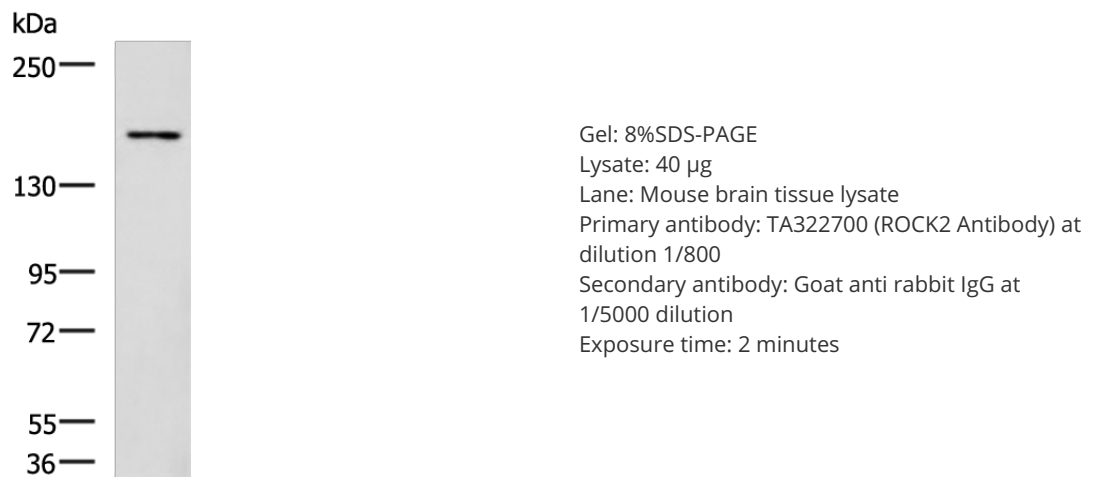
ROCK-II

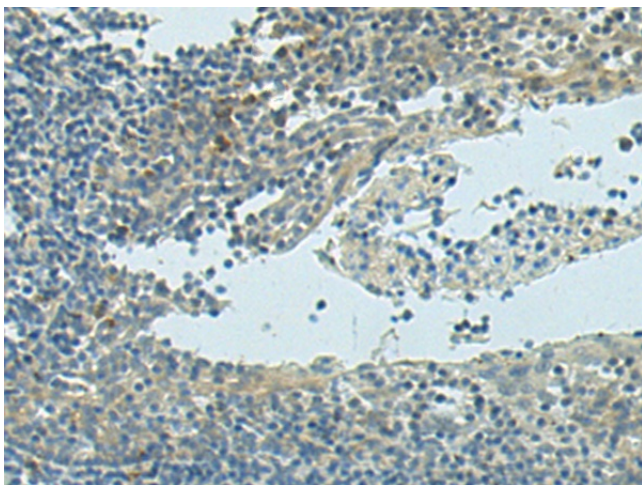
Protein Families:

Druggable Genome, Protein Kinase

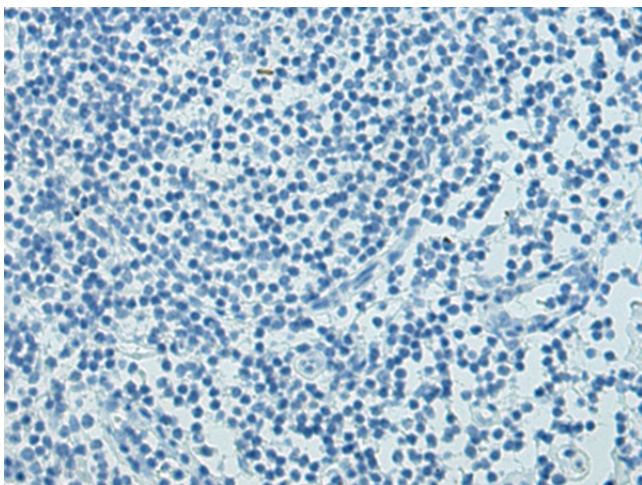
Protein Pathways:

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 tonsil tissue using TA322700 (ROCK2 Antibody) at dilution 1/130 (Original magnification: $\times 200$)



Immunohistochemistry of paraffin-embedded Human tonsil tissue using TA322700 (ROCK2 Antibody) at dilution 1/130, treated with fusion protein. (Original magnification: $\times 200$)