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Anti-ROCK1 Rabbit mAb [18G16]

Catalog No.: A52294

Basic Information

Catalog No. (Cat.No.)	A52294
Host species	Rabbit
Reactivity	Human,Mouse,Rat
Applications	WB,IHC,IP,IF,ELISA
Synonyms	ROCK1,Rho-associated coiled-coil-containing protein kinase 1,p160ROCK,ROCK-alpha

Product Information

Target	ROCK1
Molecular Weight(Calculated)	158 kDa
Molecular Weight(Observed)	158 kDa
Isotype	IgG,Kappa
Conjugation	NA
Concentration	0.2 mg/ml
Clonality	Monoclonal
Clone No.	18G16
RRID	NA
Storage buffer	50% Glycerol, 0.05% BSA and 0.05% preservative in PBS (pH 7.2-7.4)
Storage	Stored at -20°C for 1 year. Avoid repeated freeze / thaw cycles.
Shipped at conditions	Frozen
Form	Liquid

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Product Usage Information

Application	Dilution
WB	1:1000-1:5000
IHC	1:200-1:1000
IP	1:50-1:200
IF	1:200-1:1000
ELISA	1:5000-1:20000

Target Information

Protein Name	Rho-associated coiled-coil-containing protein kinase-1
Gene Name	*ROCK1*
Domain	NA
Background	ROCK1 (Rho-associated coiled-coil-containing protein kinase 1) is Rho-downstream serine-threonine kinase serving as major RhoA effector controlling actomyosin contractility, cytoskeleton dynamics, cell migration and polarity. Active GTP-RhoA binds ROCK1 and relieves its auto-inhibition. Activated ROCK1 phosphorylates substrates including MLC and MYPT1 to boost myosin-II activity, promoting stress-fiber and focal-adhesion assembly and cellular contractility. ROCK1 also participates in cytokinesis, vesicle trafficking and EMT. Excessive ROCK1 activity drives tumor invasion and metastasis.