

Product Datasheet

ROCK1 Antibody (154C1465) - (active/cleaved) - BSA Free NB100-56596

Unit Size: 0.1 mg

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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NB100-56596

ROCK1 Antibody (154C1465) - (active/cleaved) - BSA Free

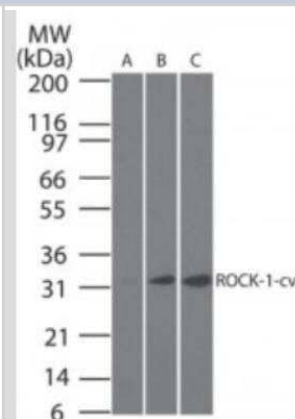
Product Information	
Unit Size	0.1 mg
Concentration	1.0 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	154C1465
Preservative	0.05% Sodium Azide
Isotype	IgG
Purity	Protein G purified
Buffer	PBS

Product Description	
Host	Mouse
Gene ID	6093
Gene Symbol	ROCK1
Species	Human, Mouse, Rat, Canine, Primate, Rabbit
Reactivity Notes	Human reactivity reported in scientific literature (PMID:32861242). Cross reacts with Chimpanzee.
Specificity/Sensitivity	This mAb recognizes the cleaved C-terminus of ROCK-1. It does not recognize the full-length protein. Since ROCK-1 is cleaved by caspase-3 during apoptosis, this may be used for detection of apoptosis.
Immunogen	This antibody was generated by immunizing mice with a synthetic peptide sequence corresponding to amino acids 1114-1126 GNLPESTRIEGWLS of human ROCK-1. This sequence is 100% conserved between human, chimpanzee, mouse, rat, dog, and rabbit. This immunogen peptide sequence is adjacent to the caspase-3 cleavage site of ROCK-1.

Product Application Details	
Applications	Western Blot, Immunocytochemistry/ Immunofluorescence
Recommended Dilutions	Western Blot 1-2 ug/ml, Immunocytochemistry/ Immunofluorescence reported in scientific literature (PMID 21059388)

Images

Western Blot: cleaved ROCK1 Antibody (154C1465) [NB100-56596] - Analysis using Azide Free version of NB100-56596. Cleaved ROCK-1 in A) untreated, B) 1 hour and C) 4 hour staurosporin-treated (2 uM) Jurkat cells using this antibody. Goat anti-mouse Ig HRP secondary antibody and PicoTect ECL substrate solution were used



Publications

McKenzie BA, Fernandes JP, Doan MAL et al. Activation of the executioner caspases-3 and -7 promotes microglial pyroptosis in models of multiple sclerosis J Neuroinflammation 2020-08-29 [PMID: 32861242] (ICC/IF, WB, Human)

Goetsch K P, Kallmeyer K, Niesler C U. Decorin modulates collagen I-stimulated, but not fibronectin-stimulated, migration of C2C12 myoblasts. Matrix Biol. 2011-03-01 [PMID: 21059388] (ICC/IF)

Orlando KA, Pittman RN. Rho kinase regulates phagocytosis, surface expression of GlcNAc, and Golgi fragmentation of apoptotic PC12 cells. Exp Cell Res. 2006-10-15 [PMID: 16904666]

Details:

Products cited: 1. ROCK-1 (Cleaved), IMG-383A: WB, Figs 1,2 (serum-starved PC12 cells). IMG-383 detected a 30 kDa cleaved Rock-1 band in serum-starved PC12 cells. The addition of the Broad-Spectrum Caspase Inhibitor Z-VAD-FMK (IMI-2310-1, -5) during serum

Orlando KA, Stone NL, Pittman RN. Rho kinase regulates fragmentation and phagocytosis of apoptotic cells. Exp Cell Res. 2006-01-01 [PMID: 16259978] (WB)

Details:

Products cited: 1. ROCK-1 (Cleaved), IMG-383A: WB, Fig 3 (tamoxifen-treated Cos7 cells). IMG-383 detected a 30 kDa cleaved Rock-1 band in tamoxifen-treated cells. The addition of the Broad-Spectrum Caspase Inhibitor Z-VAD-FMK (IMI-2310-1, -5) prior to tam

Zhao H, Miller M, Pfeiffer K et al. Anoxia and reoxygenation of human endothelial cells decrease ceramide glucosyltransferase expression and activates caspases. FASEB J. 2003-04-01 [PMID: 12586734] (WB)

Details:

WB (Normoxic/anoxic/reoxygenated HUVEC cells), Fig 1.





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Products Related to NB100-56596

HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-97019-5mg	Mouse IgG Isotype Control
NB100-56596B	ROCK1 Antibody (154C1465) [Biotin] - (active/cleaved)

Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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