

# Product Datasheet

## Rhot1 Antibody (4H4) - Azide and BSA Free H00055288-M01

Unit Size: 0.1 mg

Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.

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**H00055288-M01**

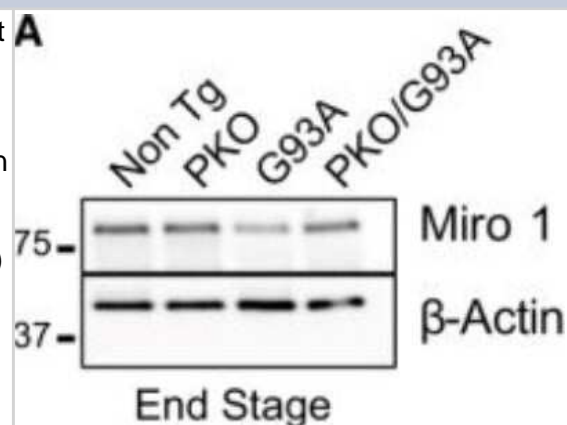
Rhot1 Antibody (4H4) - Azide and BSA Free

Product Information	
Unit Size	0.1 mg
Concentration	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
Storage	Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	4H4
Preservative	No Preservative
Isotype	IgG1 Kappa
Purity	IgG purified
Buffer	In 1x PBS, pH 7.4
Product Description	
Host	Mouse
Gene ID	55288
Gene Symbol	RHOT1
Species	Human, Mouse, Rat
Reactivity Notes	Mouse reactivity reported in scientific literature (PMID: 30126943). Other species not tested.
Specificity/Sensitivity	RHOT1 - ras homolog gene family, member T1
Immunogen	RHOT1 (NP_060777, 483 a.a. ~ 580 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa. TEAEIICDVVCLVYDVSNPKSFEYCARIFKQHFMDSRIPCLIVAAKSDLHEVKQE YSISPTDFCRKHKMPPPQAFTCNTADAPSKDIFVKLTMMAMYP
Notes	This product is produced by and distributed for Abnova, a company based in Taiwan.
Product Application Details	
Applications	Western Blot, ELISA, Immunocytochemistry/ Immunofluorescence
Recommended Dilutions	Western Blot 1:500, ELISA 1:100-1:2000, Immunocytochemistry/ Immunofluorescence

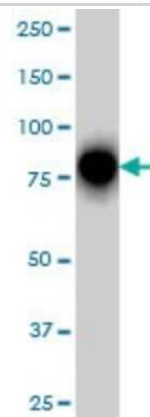


## Images

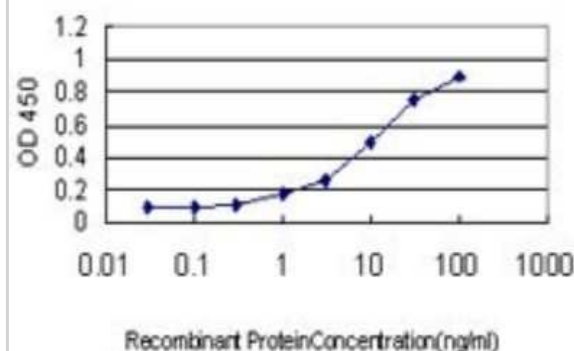
Western Blot: Rhot1 Antibody (4H4) [H00055288-M01] - Parkin knockout improves the decline of mitochondrial dynamics proteins in SOD1-G93A spinal cord, but mitochondrial protein ubiquitination profiles and March5 and Mul1 levels are unaffected A, B Western blots (A) and quantification (B) of Miro1 in spinal cord homogenates at disease end stage. Beta-actin is used as loading reference. Image collected and cropped by CiteAb from the following publication (<http://embomolmed.embopress.org/lookup/doi/10.15252/emmm.201808888>) licensed under a CC-BY license.



Western Blot: Rhot1 Antibody (4H4) [H00055288-M01] - RHOT1 monoclonal antibody (M01), clone 4H4 Analysis of RHOT1 expression in Hela S3 NE.



ELISA: Rhot1 Antibody (4H4) [H00055288-M01] - Detection limit for recombinant GST tagged RHOT1 is approximately 0.3ng/ml as a capture antibody.



## Publications

Wauters, F;Cornelissen, T;Imberechts, D;Martin, S;Koentjoro, B;Sue, C;Vangheluwe, P;Vandenberghe, W; LRRK2 mutations impair depolarization-induced mitophagy through inhibition of mitochondrial accumulation of RAB10 Autophagy 2019-04-04 [PMID: 30945962]

Nguyen TTT Unraveling the Mechanism of ER-Associated Mitochondrial Fission and Fusion Thesis 2023-01-01 (WB)

Andres G, Marianna L, Michael H et al. VPS13D bridges the ER to mitochondria and peroxisomes via Miro. J Cell Biol. 2021-02-17 [PMID: 33891013]

Lee CA, Chin LS, Li L. et al. Hypertonia-linked protein Trak1 functions with mitofusins to promote mitochondrial tethering and fusion. Protein Cell 2017-09-18 [PMID: 28924745]

Palomo GM, Granatiero V, Kawamata H et al. Parkin is a disease modifier in the mutant SOD1 mouse model of ALS EMBO Mol Med 2018-08-20 [PMID: 30126943] (WB, Mouse)

Wang L, Gao J, Liu J et al. Mitofusin 2 Regulates Axonal Transport of Calpastatin to Prevent Neuromuscular Synaptic Elimination in Skeletal Muscles. Cell Metab. 2018-07-02 [PMID: 30017354] (WB, Mouse)

Greiner GF, Conraux C, Collard M, Picart P. [Value of pendular rotational methods in the study of vestibular reequilibration]. Rev Otoneuroophthalmol 2018-01-01 [PMID: 29290944] (WB, Human)

Chen XL, Serrano D, Mayhue M et al. GTPase of the immune-associated nucleotide-binding protein 5 (GIMAP5) regulates calcium influx in T lymphocytes by promoting mitochondrial calcium accumulation. Biochem J. 2012-10-26 [PMID: 23098229]

Su B, Ji YS, Sun XL et al. Brain-Derived Neurotrophic Factor (BDNF)-Induced Mitochondrial Motility Arrest and Presynaptic Docking Contribute to BDNF-Enhanced Synaptic Transmission. J Biol Chem. 2013-12-03 [PMID: 24302729]

Pozo KB, Stephenson FA. N-acetylglucosamine transferase is an integral component of a kinesin-directed mitochondrial trafficking complex. Biochim Biophys Acta 1813(1):269-81. 2011-01-01 [PMID: 21034780]

Macaskill AF, Brickley K, Stephenson FA et al. GTPase dependent recruitment of Grif-1 by Miro1 regulates mitochondrial trafficking in hippocampal neurons. Mol Cell Neurosci 40(3):301-12. 2009-03-01 [PMID: 19103291]





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### **Products Related to H00055288-M01**

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HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-43319-0.5mg	Mouse IgG1 Kappa Isotype Control (P3.6.2.8.1)
NBP2-52964PEP	Rhot1 Recombinant Protein Antigen

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### **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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