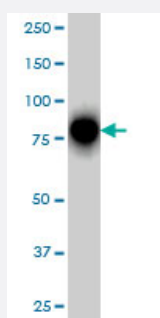


RHOT1 monoclonal antibody (M01), clone 4H4

Catalog # H00055288-M01

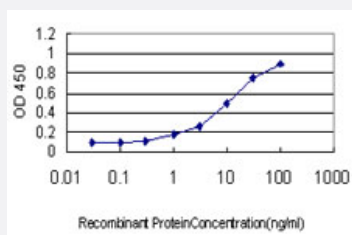
Size 100 ug

Applications



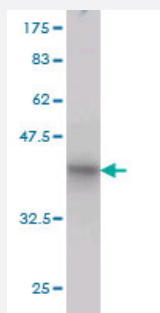
Western Blot (Cell lysate)

RHOT1 monoclonal antibody (M01), clone 4H4 Western Blot analysis of RHOT1 expression in HeLa S3 NE (Cat # L013V3).



Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged RHOT1 is approximately 0.3ng/ml as a capture antibody.



Western Blot detection against Immunogen (36.52 KDa) .

Specification

Product Description

Mouse monoclonal antibody raised against a partial recombinant RHOT1.

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.
Sequence	TEAEIICDVVCLVYDVSNPKSFEYCARIFKQHFMDSRIPCLVAAKSDLHEVKQEYISPTDFCRKH KMPPPQAFTCNTADAPSKDIFVKLTMMAMYP
Host	Mouse
Reactivity	Human
Interspecies Antigen Sequence	Mouse (98); Rat (91)
Isotype	IgG1 Kappa
Quality Control Testing	Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (36.52 KDa) .
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Cell lysate)

RHOT1 monoclonal antibody (M01), clone 4H4 Western Blot analysis of RHOT1 expression in Hela S3 NE (Cat # L013V3).

[Protocol Download](#)

- Western Blot (Recombinant protein)

[Protocol Download](#)

- Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged RHOT1 is approximately 0.3ng/ml as a capture antibody.

[Protocol Download](#)

- ELISA

Gene Info — RHOT1

Entrez GeneID [55288](#)

GeneBank Accession#	NM_018307
Protein Accession#	NP_060777
Gene Name	RHOT1
Gene Alias	ARHT1, FLJ11040, FLJ12633, MIRO-1
Gene Description	ras homolog gene family, member T1
Gene Ontology	Hyperlink
Gene Summary	O
Other Designations	mitochondrial Rho 1 rac-GTP binding protein-like protein

Publication Reference

- [ARF1 prevents aberrant type I interferon induction by regulating STING activation and recycling.](#)

Maximilian Hirschenberger, Alice Lepelley, Ulrich Rupp, Susanne Klute, Victoria Hunszinger, Lennart Koepke, Veronika Merold, Blaise Didry-Barca, Fanny Wondany, Tim Bergner, Tatiana Moreau, Mathieu P Roder, Reinhild Rösler, Sebastian Wiese, Stefano Volpi, Marco Gattorno, Riccardo Papa, Sally-Ann Lynch, Marte G Haug, Gunnar Houge, Kristen M Wigby, Jessica Sprague, Jerica Lenberg, Clarissa Read, Paul Walther, Jens Michaelis, Frank Kirchhoff, Carina C de Oliveira Mann, Yanick J Crow, Konstantin M J

Nature Communications 2023 Nov; 14(1):6770.

Application: WB, Human, HEK293T cells

- [VPS13D bridges the ER to mitochondria and peroxisomes via Miro.](#)

Andrés Guillén-Samander, Marianna Leonzino, Michael G Hanna, Ni Tang, Hongying Shen, Pietro De Camilli.

The Journal of Cell Biology 2021 May; 220(5):e202010004.

Application: WB-Tr, Human, HeLa cells

- [Brain-Derived Neurotrophic Factor \(BDNF\)-Induced Mitochondrial Motility Arrest and Presynaptic Docking Contribute to BDNF-Enhanced Synaptic Transmission.](#)

Su B, Ji YS, Sun XL, Liu XH, Chen ZY.

The Journal of Biological Chemistry 2014 Jan; 289(3):1213.

Application: WB-Ti, Rat, Neurons

- [GTPase of the immune-associated nucleotide-binding protein 5 \(GIMAP5\) regulates calcium influx in T-lymphocytes by promoting mitochondrial calcium accumulation.](#)

Chen XL, Serrano D, Mayhue M, Wieden HJ, Stankova J, Boulay G, Ilangumaran S, Ramanathan S.

The Biochemical Journal 2013 Jan; 449(2):353.

Application: IF, Human, HEK 293, HeLa cells

- [N-acetylglucosamine transferase is an integral component of a kinesin-directed mitochondrial trafficking complex.](#)

Pozo KB, Stephenson FA.

Biochimica et Biophysica Acta 2011 Jan; 1813(1):269.

Application: WB-Tr, Human, HEK 293 cells

- [GTPase dependent recruitment of Grif-1 by Miro1 regulates mitochondrial trafficking in hippocampal neurons.](#)

Macaskill AF, Brickley K, Stephenson FA, Kittler JT.

Molecular and Cellular Neurosciences 2008 Dec; 40(3):301.

Application: IF, Human, DIV 10 neurons, HEK 293 cells

Disease

- [Tobacco Use Disorder](#)