

**RHOT1 Antibody (N-term)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP18541a****Specification**

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**RHOT1 Antibody (N-term) - Product Information**

|                   |                                                                                                                                                                |
|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Application       | WB,E                                                                                                                                                           |
| Primary Accession | <a href="#">Q8IXI2</a>                                                                                                                                         |
| Other Accession   | <a href="#">Q8BG51</a> , <a href="#">Q6NVC5</a> , <a href="#">Q5ZM73</a> , <a href="#">Q2HJF8</a> ,<br><a href="#">NP_001028738.1</a> , <a href="#">A1L1L6</a> |
| Reactivity        | Human                                                                                                                                                          |
| Predicted         | Bovine, Chicken, Zebrafish, Mouse, Rat                                                                                                                         |
| Host              | Rabbit                                                                                                                                                         |
| Clonality         | Polyclonal                                                                                                                                                     |
| Isotype           | Rabbit IgG                                                                                                                                                     |
| Calculated MW     | 70784                                                                                                                                                          |
| Antigen Region    | 84-110                                                                                                                                                         |

**RHOT1 Antibody (N-term) - Additional Information****Gene ID** 55288**Other Names**

Mitochondrial Rho GTPase 1, MIRO-1, hMiro-1, 365-, Rac-GTP-binding protein-like protein, Ras homolog gene family member T1, RHOT1, ARHT1

**Target/Specificity**

This RHOT1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 84-110 amino acids from the N-terminal region of human RHOT1.

**Dilution**

WB~~1:1000

E~~Use at an assay dependent concentration.

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

RHOT1 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

**RHOT1 Antibody (N-term) - Protein Information**

**Name** RHOT1

**Synonyms** ARHT1

**Function** Atypical mitochondrial nucleoside-triphosphatase (NTPase) involved in mitochondrial trafficking (PubMed:[12482879](#), PubMed:[16630562](#), PubMed:[22396657](#), PubMed:[30513825](#)). Probably involved in control of anterograde transport of mitochondria and their subcellular distribution (PubMed:[12482879](#), PubMed:[16630562](#), PubMed:[22396657](#)). Promotes mitochondrial fission during high calcium conditions (PubMed:[27716788](#)). Can hydrolyze GTP, ATP and UTP (PubMed:[30513825](#)).

**Cellular Location**

Mitochondrion outer membrane; Single-pass type IV membrane protein. Note=Colocalizes with MGARP and RHOT2 at the mitochondria

**Tissue Location**

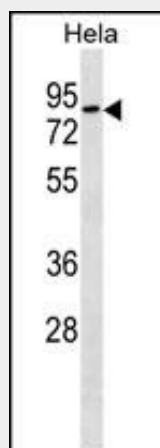
Ubiquitously expressed. Expressed at high level in heart and skeletal muscle.

**RHOT1 Antibody (N-term) - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**RHOT1 Antibody (N-term) - Images**



RHOT1 Antibody (N-term) (Cat. #AP18541a) western blot analysis in HeLa cell line lysates (35ug/lane). This demonstrates the RHOT1 antibody detected the RHOT1 protein (arrow).

**RHOT1 Antibody (N-term) - Background**

Mitochondrial GTPase involved in mitochondrial trafficking. Probably involved in control of anterograde transport of mitochondria and their subcellular distribution.

**RHOT1 Antibody (N-term) - References**

Rose, J.E., et al. Mol. Med. 16 (7-8), 247-253 (2010) :  
MacAskill, A.F., et al. Mol. Cell. Neurosci. 40(3):301-312(2009)  
Wang, X., et al. Cell 136(1):163-174(2009)  
Saitome, M., et al. Proc. Natl. Acad. Sci. U.S.A. 105(52):20728-20733(2008)  
Fransson, S., et al. Biochem. Biophys. Res. Commun. 344(2):500-510(2006)