

## Rabbit RHOT1 Polyclonal Antibody | anti-RHOT1 antibody

RHOT1 Antibody (N-term)

|                               |                       |                                                                                 |                                            |
|-------------------------------|-----------------------|---------------------------------------------------------------------------------|--------------------------------------------|
| CATALOG #<br><b>AAA288590</b> | HOST<br><b>Rabbit</b> | REACTIVITY<br><b>Human</b><br>Predicted: Bovine, Chicken, Zebrafish, Mouse, Rat | APPLICATIONS<br><b>ELISA, Western Blot</b> |
|-------------------------------|-----------------------|---------------------------------------------------------------------------------|--------------------------------------------|

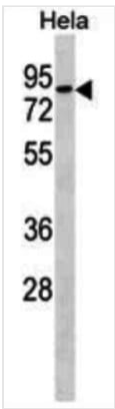
### PRODUCT SYNONYMS

RHOT1; Polyclonal Antibody; RHOT1 Antibody (N-term); Mitochondrial Rho GTPase 1; MIRO-1; hMiro-1; 365-; Rac-GTP-binding protein-like protein; Ras homolog gene family member T1; ARHT1; anti-RHOT1 antibody

### PRODUCT SPECIFICATIONS

|                                                 |                                                                                                                                                                       |
|-------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                            | Rabbit                                                                                                                                                                |
| Reactivity                                      | Human<br>Predicted: Bovine, Chicken, Zebrafish, Mouse, Rat                                                                                                            |
| Clonality                                       | Polyclonal                                                                                                                                                            |
| Isotype                                         | Rabbit IgG                                                                                                                                                            |
| 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. |
| Purity/Purification                             | This antibody is purified through a protein A column, followed by peptide affinity purification.                                                                      |
| Form/Format                                     | Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide.                                                                                           |
| Sequence Positions                              | 84-110                                                                                                                                                                |
| Applicable Applications for anti-RHOT1 antibody | ELISA, WB (Western Blot)                                                                                                                                              |
| Function                                        | Mitochondrial GTPase involved in mitochondrial trafficking. Probably involved in control of anterograde transport of mitochondria and their subcellular distribution. |
| 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.                                                                                         |
| Preparation and Storage                         | Maintain refrigerated at 2-8 degree C for up to 2 weeks.<br>For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.              |

IMAGES



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

ADDITIONAL INFORMATION

|                                                     |                                                                                                                                                                                                                                                                                                                                      |
|-----------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-RHOT1 antibody | Mitochondrial GTPase involved in mitochondrial trafficking. Probably involved in control of anterograde transport of mitochondria and their subcellular distribution.                                                                                                                                                                |
| Product Categories/Family for anti-RHOT1 antibody   | Metabolism                                                                                                                                                                                                                                                                                                                           |
| References                                          | Rose, J.E., et al. Mol. Med. 16 (7-8), 247-253 (2010) :<br>MacAskill, A.F., et al. Mol. Cell. Neurosci. 40(3):301-312(2009)<br>Wang, X., et al. Cell 136(1):163-174(2009)<br>Saotome, M., et al. Proc. Natl. Acad. Sci. U.S.A. 105(52):20728-20733(2008)<br>Fransson, S., et al. Biochem. Biophys. Res. Commun. 344(2):500-510(2006) |

NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                |
|----------------------------------|------------------------------------------------------------------------------------------------|
| NCBI GI #                        | 75750476                                                                                       |
| NCBI GeneID                      | 55288                                                                                          |
| NCBI Accession #                 | NP_001028738.1; NP_001028740.1; NP_060777.3                                                    |
| NCBI GenBank Nucleotide #        | NM_001033566.2                                                                                 |
| UniProt Accession #              | Q8IXI2; Q6NUR3; Q6P9F8; Q6PJG1; Q6YMW8; Q86UB0; Q8IW28; Q8IXJ7; A4FVB6; A6NFV0; B4DG48; J9JIH9 |
| Molecular Weight                 | 70784                                                                                          |
| NCBI Official Full Name          | mitochondrial Rho GTPase 1 isoform 2                                                           |
| NCBI Official Synonym Full Names | ras homolog family member T1                                                                   |
| NCBI Official Symbol             | RHOT1                                                                                          |
| NCBI Official Synonym Symbols    | ARHT1; MIRO1; MIRO-1                                                                           |
| NCBI Protein Information         | mitochondrial Rho GTPase 1                                                                     |
| UniProt Protein Name             | Mitochondrial Rho GTPase 1                                                                     |
| UniProt Gene Name                | RHOT1                                                                                          |
| UniProt Synonym Gene Names       | ARHT1; MIRO-1; hMiro-1                                                                         |
| UniProt Entry Name               | MIRO1_HUMAN                                                                                    |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/rhot1-antibody-western-blot-elisa/288590>