

**RHOT1 antibody - N-terminal region**  
**Rabbit Polyclonal Antibody**  
**Catalog # AI12501****Specification**

---

**RHOT1 antibody - N-terminal region - Product Information**

|                   |                                                                           |
|-------------------|---------------------------------------------------------------------------|
| Application       | IHC, WB                                                                   |
| Primary Accession | <a href="#">Q8IXI2</a>                                                    |
| Other Accession   | <a href="#">NM_018307</a> , <a href="#">NP_060777</a>                     |
| Reactivity        | Human, Mouse, Rat, Rabbit, Zebrafish, Pig, Horse, Bovine, Guinea Pig, Dog |
| Predicted         | Rat, Rabbit, Pig, Chicken, Horse, Guinea Pig, Dog                         |
| Host              | Rabbit                                                                    |
| Clonality         | Polyclonal                                                                |
| Calculated MW     | 71kDa KDa                                                                 |

**RHOT1 antibody - N-terminal region - Additional Information****Gene ID** 55288**Alias Symbol** **ARHT1, FLJ11040, FLJ12633, MIRO-1, MIRO1****Other Names**

Mitochondrial Rho GTPase 1, MIRO-1, hMiro-1, 3.6.5.-, Rac-GTP-binding protein-like protein, Ras homolog gene family member T1, RHOT1, ARHT1

**Format**

Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.

**Reconstitution & Storage**

Add 50 ul of distilled water. Final anti-RHOT1 antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.

**Precautions**

RHOT1 antibody - N-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

**RHOT1 antibody - N-terminal region - Protein Information****Name** RHOT1**Synonyms** ARHT1**Function**

Mitochondrial GTPase involved in mitochondrial trafficking (PubMed:&lt;a href="http://www.uniprot.org/citations/12482879" target="\_blank"&gt;12482879&lt;/a&gt;, PubMed:&lt;a href="http://www.uniprot.org/citations/16630562" target="\_blank"&gt;16630562&lt;/a&gt;, PubMed:&lt;a href="http://www.uniprot.org/citations/16630562" target="\_blank"&gt;16630562&lt;/a&gt;, PubMed:&lt;a href="http://www.uniprot.org/citations/16630562" target="\_blank"&gt;16630562&lt;/a&gt;)

href="http://www.uniprot.org/citations/22396657" target="\_blank">22396657</a>). Probably involved in control of anterograde transport of mitochondria and their subcellular distribution (PubMed:<a href="http://www.uniprot.org/citations/12482879" target="\_blank">12482879</a>, PubMed:<a href="http://www.uniprot.org/citations/16630562" target="\_blank">16630562</a>, PubMed:<a href="http://www.uniprot.org/citations/22396657" target="\_blank">22396657</a>). Promotes mitochondrial fission during high calcium conditions (PubMed:<a href="http://www.uniprot.org/citations/27716788" target="\_blank">27716788</a>).

#### Cellular Location

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

#### Tissue Location

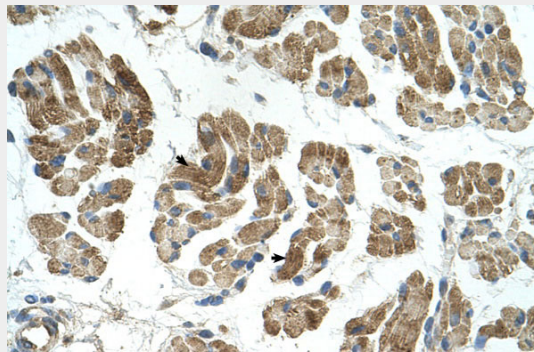
Ubiquitously expressed. Expressed at high level in heart and skeletal muscle.

#### RHOT1 antibody - N-terminal region - Protocols

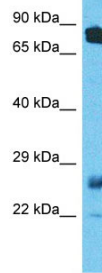
Provided below are standard protocols that you may find useful for product applications.

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

#### RHOT1 antibody - N-terminal region - Images



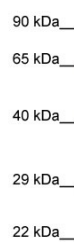
Rabbit Anti-RHOT1 Antibody  
Paraffin Embedded Tissue: Human Muscle  
Cellular Data: Skeletal muscle cells  
Antibody Concentration: 4.0-8.0 µg/ml  
Magnification: 400X



Host: Rabbit  
Target Name: RHOT1  
Sample Tissue: Fetal Lung lysates  
Antibody Dilution: 1.0µg/ml



WB Suggested Anti-RHOT1 antibody Titration: 1 µg/ml  
Sample Type: Human A549



Host: Rabbit  
Target Name: MIRO1  
Sample Tissue: Fetal Lung Lysate  
Antibody Dilution: 1.0µg/ml

Host: Rabbit  
Target Name: MIRO1  
Sample Tissue: Fetal Lung lysates  
Antibody Dilution: 1.0µg/ml

### **RHOT1 antibody - N-terminal region - References**

Brandenberger, R., (2004) Nat. Biotechnol. 22(6), 707-716 Reconstitution and Storage: For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.