

Rabbit RHOT1 Polyclonal Antibody | anti-RHOT1 antibody

RHOT1 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA40510	Rabbit	Human, Mouse, Rat	Immunofluorescence, Immunohistochemistry, Western Blot, ELISA

PRODUCT SYNONYMS

RHOT1; Polyclonal Antibody; RHOT1 Antibody; Ras homolog family member T1; mitochondrial Rho GTPase 1; ARHT1; MIRO-1; MIRO1; MIRO; ras homolog family member T1; anti-RHOT1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	RHOT1 antibody is human, mouse and rat reactive. At least three isoforms of RHOT1 are known to exist; this antibody will detect all three isoforms.
Purity/Purification	RHOT1 antibody is affinity chromatography purified via peptide column.
Form/Format	Liquid; RHOT1 antibody is supplied in PBS containing 0.02% sodium azide.
Concentration	1 mg/mL (varies by lot)
Sequence Length	691
Applicable Applications for anti-RHOT1 antibody	IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot), ELISA
Conjugate	Unconjugated
Immunogen	RHOT1 antibody was raised against a 15 amino acid peptide near the amino terminus of human RHOT1. The immunogen is located within amino acids 40 - 90 of RHOT1.
Homology	Predicted species reactivity based on immunogen sequence: Bovine: (100%), Chicken:(81%)
Note	Optimal dilutions for each application to be determined by the researcher.
Preparation and Storage	RHOT1 antibody can be stored at 4 degree C for three months and -20 degree C, stable for up to one year.

IMAGES



IF (Immunofluorescence)

Immunofluorescence of RHOT in mouse brain tissue with RHOT antibody at 20 μg/ml.



IHC (Immunohistochemistry)

Immunohistochemistry of RHOT in mouse brain tissue with RHOT antibody at 5 μg/ml.



WB (Western Blot)

Western blot analysis of RHOT1 in rat brain tissue lysate with RHOT1 antibody at 1 µg/ml.

ADDITIONAL INFORMATION

Related Product Information for anti-RHOT1 antibody	The Ras homolog family member T1 (RHOT) is an atypical Rho Ca ²⁺ -binding GTPase that localizes to the mitochondria (1). RHOT1, the related protein RHOT2, the adaptor protein Milton, and the PTEN induced putative kinase 1 (PINK1), form a complex that is involved in axonal transport of mitochondria (2,3). Both PINK1 and Parkin target RHOT1 for phosphorylation and degradation, causing the arrest of mitochondrial motility (4).
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NCBI AND UNIPROT INFORMATION

NCBI GI #	75750480
NCBI GeneID	55288
NCBI Accession #	NP_001028740
NCBI GenBank Nucleotide #	NM_001033568.2
UniProt Accession #	Q8IXI2; Q6NUR3; Q6P9F8; Q6PJG1; Q6YMW8; Q86UB0; Q8IW28; Q8IXJ7; A4FVB6; A6NFV0; B4DG48; J9JIH9
Molecular Weight	Predicted: 76 kDa Observed: 78 kDa
NCBI Official Full Name	mitochondrial Rho GTPase 1 isoform 1
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; mitochondrial Rho (MIRO) GTPase 1; ras homolog gene family, member T1; rac-GTP binding protein-like protein
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-immunofluorescence-immunohistochemistry-western-blot-elisa/40510>