# Rabbit anti-Human RNH1 Polyclonal Antibody | anti-RNH1 antibody

Anti-RNH1 Antibody, Rabbit Polyclonal

| CATALOG # | HOST | REACTIVITY | APPLICATIONS |
|---|---|---|---|
| **AAA255209** | **Rabbit** | **Human** | **Immunofluorescence, Immunocytochemistry, Immunohistochemistry** |

## PRODUCT SYNONYMS

RNH1; Polyclonal Antibody; Anti-RNH1 Antibody; Rabbit Polyclonal; RNH1 Antibody; Rabbit PAb; Antigen Affinity Purified; ribonuclease/angiogenin inhibitor 1; Anti-RAI Antibody; Anti-RNH Antibody; anti-RNH1 antibody

## PRODUCT SPECIFICATIONS

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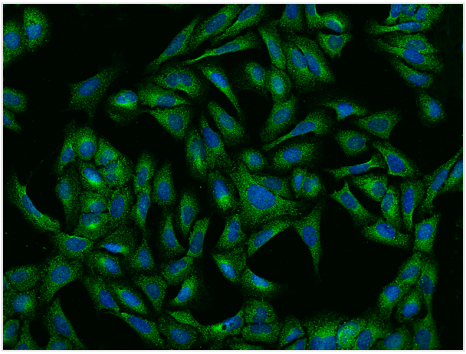
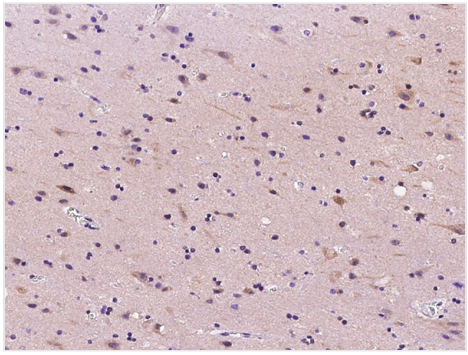
| **Host** | Rabbit |
| **Reactivity** | Human |
| **Clonality** | Polyclonal |
| **Isotype** | Rabbit IgG |
| **Specificity** | Human RNH1 |
| **Purity/Purification** | Protein A & Antigen Affinity |
| **Form/Format** | Liquid; PBS, pH7.0 with 0.03% Proclin300 |
| **Applicable Applications for anti-RNH1 antibody** | IF (Immunofluorescence), ICC (Immunocytochemistry), IHC (Immunohistochemistry) |
| **Immunogen** | A synthetic peptide corresponding to the C-terminus of the Human RNH1 |
| **Conjugation** | Unconjugated |
| **Preparation** | Produced in rabbits immunized with a synthetic peptide corresponding to the C-terminus of the Human RNH1, and purified by antigen affinity chromatography. |
| **Preparation and Storage** | This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Avoid repeated freeze-thaw cycles. |

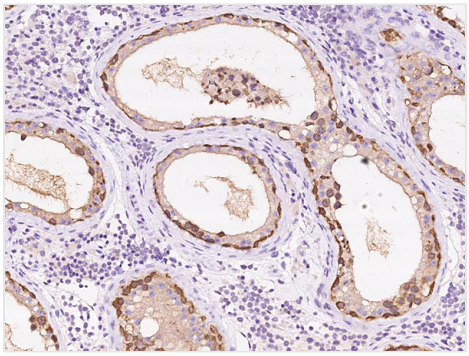
## IMAGES



**IF (Immunofluorescence)**
Immunofluorescence staining of RNH1 in U2OS cells. Cells were fixed with 4% PFA, permeabilzed with 0.1% Triton X-100 in PBS,blocked with 10% serum, and incubated with rabbit anti-human RNH1 polyclonal antibody (dilution ratio 1:1000) at 4 degree C overnight. Then cells were stained with the Alexa Fluor488-conjugated Goat Anti-rabbit IgG secondary antibody (green) and counterstained with DAPI (blue).Positive staining was localized to Cytoplasm.



**IHC (Immunohiostchemistry)**
Immunochemical staining of human RNH1 in human brain with rabbit polyclonal antibody at 1:2000 dilution, formalin-fixed paraffin embedded sections.



**IHC (Immunohistochemistry)**
Immunochemical staining of human RNH1 in human testis with rabbit polyclonal antibody at 1:2000 dilution, formalin-fixed paraffin embedded sections.

## ADDITIONAL INFORMATION

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| **Related Product Information for anti-RNH1 antibody** | Ribonuclease inhibitor (RNH1) is a cytosolic protein that binds with femtomolar affinity to human ribonuclease 1 (RNase 1) and homologous secretory ribonucleases. RNH1 contains 32 cysteine residues and has been implicated as an antioxidant. RNH1 is a leucine-rich repeat domains-containing protein that binds to and inhibits ribonucleases. RNH1 attenuates the activity of IRE1 by interacting with its ribonuclease domain. The Crithidia fasciculata RNH1 gene encodes an RNase H, an enzyme that specifically degrades the RNA strand of RNA-DNA hybrids. The RNH1 gene is contained within an open reading frame (ORF) predicted to encode a protein of 53.7 kDa. Major active forms of RNase H (38 and 45 kDa) were observed on activity gels of extracts of wild-type cells or cells in which one allele of RNH1 was disrupted. Both forms of the C.fasciculata RNase H are encoded by the RNH1 gene. |
| **References** | Thomas SP, et al. (2016) Knockout of the ribonuclease inhibitor gene leaves human cells vulnerable to secretory ribonucleases. Biochemistry 55 (46): 6359-6362.Tavernier Q, et al. (2018) Regulation of ire1 rnase activity by the ribonuclease inhibitor 1 (rnh1). Cell Cycle 17 (15): 1901-1916.Ray DS, et al. (1995) Disruption of the crithidia fasciculata rnh1 gene results in the loss of two active forms of ribonuclease h. Nucleic Acids Res 23 (13): 2526-2530.Engel ML, et al. (2001) The crithidia fasciculata rnh1 gene encodes both nuclear and mitochondrial isoforms of rnase h. Nucleic Acids Res 29 (3): 725-731. |

## NCBI AND UNIPROT INFORMATION

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| **NCBI GI #** | 42822874 |
| **NCBI GeneID** | 6050 |
| **NCBI Accession #** | NP_976319.1 |

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| **NCBI GenBank Nucleotide #** | NM_203385.1 |
| **UniProt Accession #** | P13489; Q8IZK8; Q96FD7; Q9BQ80; Q9UDK6 |
| **Molecular Weight** | 49,973 Da |
| **NCBI Official Full Name** | ribonuclease inhibitor |
| **NCBI Official Synonym Full Names** | ribonuclease/angiogenin inhibitor 1 |
| **NCBI Official Symbol** | RNH1 |
| **NCBI Official Synonym Symbols** | RAI; RNH |
| **NCBI Protein Information** | ribonuclease inhibitor; placental RNase inhibitor; placental ribonuclease inhibitor |
| **UniProt Protein Name** | Ribonuclease inhibitor |
| **UniProt Gene Name** | **RNH1** |
| **UniProt Synonym Gene Names** | PRI; RNH; Placental RNase inhibitor; RAI |
| **UniProt Entry Name** | RINI_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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