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## **Human RNH1 antibody**

Catalog Number: ATGA0154

## **PRODUCT INFORMATION**

## Catalog number

ATGA0154

#### Clone No.

AT1H23

## **Product type**

Monoclonal Antibody

#### UnitProt No.

P13489

#### **NCBI Accession No.**

NP 002930

#### **Alternative Names**

ribonuclease/angiogenin inhibitor 1, ribonuclease/angiogenin inhibitor, RAI

## **PRODUCT SPECIFICATION**

## **Antibody Host**

Mouse

#### **Reacts With**

Human

#### Concentration

1mg/ml (determined by BCA assay)

#### **Formulation**

Liquid in. Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol

#### **Immunogen**

Recombinant Ribonuclease inhibitor 1(RNH1) (7-461aa) purified from E. coli

#### Isotype

IgG2a kappa

### **Purification Note**

By protein-G affinity chromatography

## **Application**

ELISA, WB, ICC/IF

#### Usage

The antibody has been tested by ELISA, Western blot and ICC/IF analysis to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results.

#### **Storage**



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Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## **BACKGROUND**

## **Description**

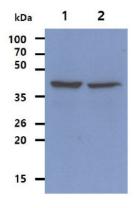
Ribonuclease inhibitor 1 (RNH1) the placental ribonuclease inhibitor, is an acid protein with a molecular weight of 50 kDa. RNH1 is a member of a family of proteinaceous cytoplasmic RNase inhibitors that are expressed in many tissues and bind to both intracellular and extracellular RNases in the cytosol. RNH1 is a role in abolishing the ribonucleolytic and angiogenic activities of angiogenin.

#### **General References**

Park J.H., et al., (2008) Cytotechnology 57(1):93-99. Johnson R.J., et al., (2007) J Mol Biol 368(2):434-449. Fu P, et al., (2005) Cancer Gene Ther 12(3):268-275.

## **DATA**

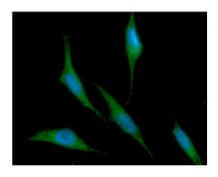
## Western blot analysis (WB)



The cell lysates(40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human RNH1 antibody (1:500). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

Lane 1.: Jurkat cell lysate Lane 2.: HepG2 cell lysate

## Immunocytochemistry/Immunofluorescence (ICC/IF)



ICC/IF analysis of RNH1 in PC3 cells. The cell was stained with ATGA0154 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).

