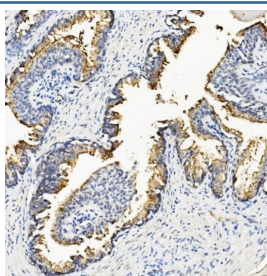


## RNH1 Antibody / Ribonuclease Inhibitor [clone 4F3] (RQ5935)

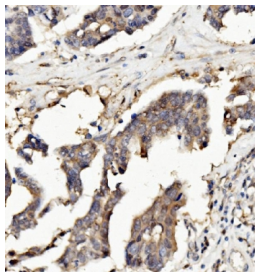
| Catalog No. | Formulation                                           | Size   |
|-------------|-------------------------------------------------------|--------|
| RQ5935      | 0.5mg/ml if reconstituted with 0.2ml sterile DI water | 100 ug |

**Bulk quote request**

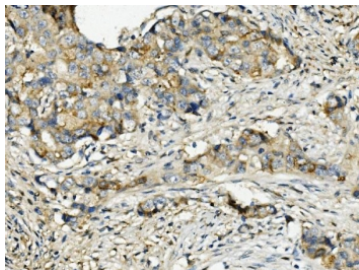
|                           |                                                                                                                                       |
|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------|
| <b>Availability</b>       | 1-3 business days                                                                                                                     |
| <b>Species Reactivity</b> | Human                                                                                                                                 |
| <b>Format</b>             | Antigen affinity purified                                                                                                             |
| <b>Host</b>               | Mouse                                                                                                                                 |
| <b>Clonality</b>          | Monoclonal (mouse origin)                                                                                                             |
| <b>Isotype</b>            | Mouse IgG2b                                                                                                                           |
| <b>Clone Name</b>         | 4F3                                                                                                                                   |
| <b>Purity</b>             | Affinity purified                                                                                                                     |
| <b>Buffer</b>             | Lyophilized from 1X PBS with 2% Trehalose and 0.025% sodium azide                                                                     |
| <b>UniProt</b>            | P13489                                                                                                                                |
| <b>Applications</b>       | Western Blot : 0.5-1ug/ml<br>Immunohistochemistry : 1-2ug/ml<br>Immunofluorescence : 2-4ug/ml<br>Flow Cytometry : 1-3ug/million cells |
| <b>Limitations</b>        | This RNH1 antibody is available for research use only.                                                                                |



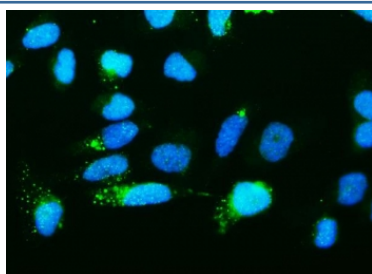
IHC staining of FFPE human prostate cancer with RNH1 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



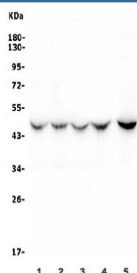
IHC staining of FFPE human ovarian cancer with RNH1 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



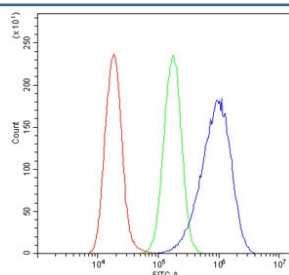
IHC staining of FFPE human breast cancer with RNH1 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



Immunofluorescent staining of FFPE human HeLa cells with RNH1 antibody (green) and DAPI nuclear stain (blue). HIER: steam section in pH6 citrate buffer for 20 min.



Western blot testing of human 1) HeLa, 2) HEK293, 3) Jurkat, 4) A549 and 5) U-87 MG antibody. Expected molecular weight ~50 kDa.



Flow cytometry testing of human A549 cells with RNH1 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= RNH1 antibody.

## Description

Ribonuclease inhibitor is an enzyme that in humans is encoded by the RNH1 gene. Placental ribonuclease inhibitor (PRI) is a member of a family of proteinaceous cytoplasmic RNase inhibitors that occur in many tissues and bind to both intracellular and extracellular Rnases. In addition to control of intracellular RNases, the inhibitor may have a role in the regulation of angiogenin. Ribonuclease inhibitor, of 50,000 Da, binds to ribonucleases and holds them in a latent form. Since neutral and alkaline ribonucleases probably play a critical role in the turnover of RNA in eukaryotic cells, RNH may be essential for control of mRNA turnover; the interaction of eukaryotic cells with ribonuclease may be reversible in vivo.

## Application Notes

Optimal dilution of the RNH1 antibody should be determined by the researcher.

## Immunogen

Amino acids SLDIQSLDIQCEELSDARWAELLPLLQQCQVVRLLD from the human protein were used as the immunogen for the RNH1 antibody.

## Storage

After reconstitution, the RNH1 antibody can be stored for up to one month at 4°C. For long-term, aliquot and store at -20°C. Avoid repeated freezing and thawing.