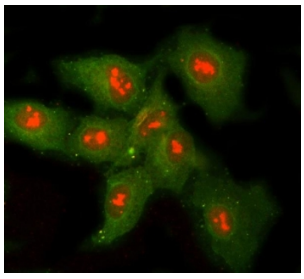
Ribonuclease H1 Antibody / RNASEH1 (RQ7840)

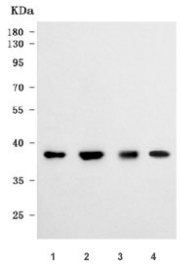
Catalog No.	Formulation	Size
RQ7840	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

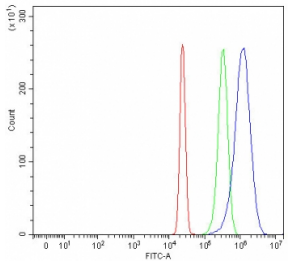
Availability	1-3 business days
Species Reactivity	Human, Mouse
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	O60930
Localization	Nuclear, cytoplasmic
Applications	Western Blot : 0.5-1ug/ml Immunofluorescence : 5ug/ml Flow Cytometry : 1-3ug/million cells Direct ELISA : 0.1-0.5ug/ml
Limitations	This Ribonuclease H1 antibody is available for research use only.



Immunofluorescent staining of FFPE human A549 cells with Ribonuclease H1 antibody (red) and Beta Tubulin antibody (green). HIER: steam section in pH6 citrate buffer for 20 min.



Western blot testing of 1) human HeLa, 2) human SH-SY5Y, 3) human U-87 MG and 4) mouse brain tissue lysate with Ribonuclease H1 antibody. Predicted molecular weight ~32 kDa.



Flow cytometry testing of human HepG2 cells with Ribonuclease H1 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= Ribonuclease H1 antibody.

Description

Ribonuclease H1 also known as RNase H1 is an enzyme that in humans is encoded by the RNASEH1 gene. This gene encodes an endonuclease that specifically degrades the RNA of RNA-DNA hybrids and plays a key role in DNA replication and repair. Alternate in-frame start codon initiation results in the production of alternate isoforms that are directed to the mitochondria or to the nucleus. The production of the mitochondrial isoform is modulated by an upstream open reading frame (uORF). Mutations in this gene have been found in individuals with progressive external ophthalmoplegia with mitochondrial DNA deletions, autosomal recessive 2. Alternative splicing results in additional coding and non-coding transcript variants. Pseudogenes of this gene have been defined on chromosomes 2 and 17.

Application Notes

Optimal dilution of the Ribonuclease H1 antibody should be determined by the researcher.

Immunogen

E. coli-derived recombinant human protein (amino acids L7-Q223) was used as the immunogen for the Ribonuclease H1 antibody.

Storage

After reconstitution, the Ribonuclease H1 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

Ordering: Phone: 858.663.9055 | Fax: 1.267.821.0800 | Email: info@nsjbio.com