

For Research Use Only

RNASEH1 Recombinant antibody, PBS Only

Catalog Number: 82771-1-PBS

Featured Product



Basic Information

Catalog Number:

82771-1-PBS

Size:

100ug, Concentration: 1 mg/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG7990

GenBank Accession Number:

BC002973

GeneID (NCBI):

246243

UNIPROT ID:

O60930

Full Name:

ribonuclease H1

Calculated MW:

32 kDa

Observed MW:

32 kDa

Purification Method:

Protein A purification

CloneNo.:

2C12

Applications

Tested Applications:

WB, IHC, Indirect ELISA

Species Specificity:

human

Background Information

Ribonucleases H are enzymes that cleave the RNA of RNA/DNA hybrids that form during replication and repair and which could lead to DNA instability if they were not processed. Eukaryotic RNases H are larger and more complex than their prokaryotic counterparts [PMID:12667461]. Eukaryotic RNase H1 has acquired a Hybrid Binding Domain that confers processivity and affinity for the substrate. Because of its essential role and its similarities in structure and enzymatic mechanism to the RNase H of HIV reverse transcriptase, RNASEH1 has been implicated in mitochondrial DNA replication during mouse development [PMID:19228196].

Storage

Storage:

Store at -80°C.

Storage Buffer:

PBS Only

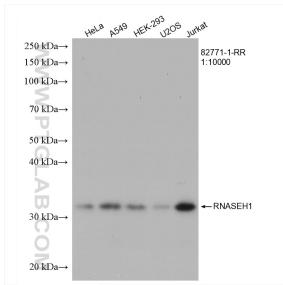
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

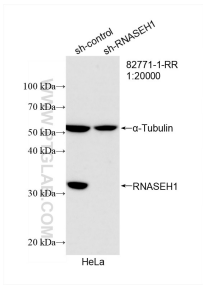
E: proteintech@ptglab.com
W: ptglab.com

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Selected Validation Data

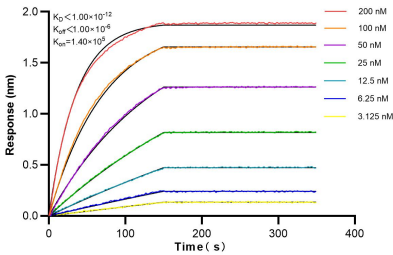


Various lysates were subjected to SDS PAGE followed by western blot with 82771-1-RR (RNASEH1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 82771-1-PBS in a different storage buffer formulation.



WB result of RNASEH1 antibody (82771-1-RR; 1:20000; incubated at room temperature for 1.5 hours) with sh-Control and sh-RNASEH1 transfected HeLa cells. This data was developed using the same antibody clone with 82771-1-PBS in a different storage buffer formulation.

Immunohistochemical analysis of paraffin-embedded human ovarian cancer slide using 82771-1-RR (RNASEH1 antibody) at dilution of 1:3000 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 82771-1-PBS in a different storage buffer formulation.



Biolayer interferometry (BLI) kinetic assays of 82771-1-RR against Human RNASEH1 were performed. The affinity constant is below 1 pM.