RNASE1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	RNASE1, Polyclonal Antibody
Full Product Name	RNASE1, NT (RNASE1, RIB1, RNS1, Ribonuclease pancreatic, HP-RNase, RIB-1, RNase UpI-1, Ribonuclease 1, Ribonuclease A) (MaxLight 405)
Product Gene Name	anti-RNASE1 antibody
Product Synonym Names	RNASE1; RIB1; RNS1; Ribonuclease pancreatic; HP-RNase; RIB-1; RNase UpI-1; Ribonuclease 1; Ribonuclease A
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight405.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight405 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	17,644 Da
Chromosome Location	Chromosome: 14; NC_000014.8 (21269515..21271036, complement). Location: 14q11.2
3D Structure	ModBase 3D Structure for P07998
Immunogen	RNASE1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 14-42 amino acids from the N-terminal region of human RNASE1.
Conjugate	MaxLight405
Note	Preservative Free
Product Categories/Family for anti-RNASE1 antibody	Antibodies; Enzymes; Ribonuclease
Applications Tested/Suitable for anti-RNASE1 antibody	Western Blot (WB), FLISA
Application Notes for anti-RNASE1 antibody	WB: 1:100-500 FLISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-RNASE1 antibody	This gene encodes a member of the pancreatic-type of secretory ribonucleases, a subset of the ribonuclease A superfamily. The encoded endonuclease cleaves internal phosphodiester RNA bonds on the 3'-side of pyrimidine bases. It prefers poly(C) as a substrate and hydrolyzes 2',3'-cyclic nucleotides, with a pH optimum near 8.0. The encoded protein is monomeric and more commonly acts to degrade ds-RNA over ss-RNA. Alternative splicing occurs at this locus and four transcript variants encoding the same protein have been identified. [provided by RefSeq].
Product References and Citations for anti-RNASE1 antibody	D'Alessio, G. Biopolymers 91(12):989-994(2009). Kover, K.E., et al. J. Mol. Biol. 379(5):953-965(2008). Ueki, M., et al. Biochem. Genet. 46 (3-4), 145-153 (2008): Johnson, R.J., et al. Biochemistry 46(36):10308-10316(2007). Cybulski, C., et al. Urol. Int. 79(1):44-49(2007).

Other Notes	Small volumes of anti-RNASE1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for RNASE1 purchase	MBS6342384 is an antibody targeting RNASE1. Also known as RNASE1, NT (RNASE1, RIB1, RNS1, Ribonuclease pancreatic, HP-RNase, RIB-1, RNase UpI-1, Ribonuclease 1, Ribonuclease A) (MaxLight 405). Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for RNASE1. It may not necessarily be applicable to this product.

NCBI GI #	38201686
NCBI GeneID	6035
NCBI Accession #	NP_937878.1
UniProt Primary Accession #	P07998
UniProt Secondary Accession #	Q16830; Q16869; Q1KHR2; Q6ICS5; Q9UCB4; Q9UCB5; B2R589; D3DS06
UniProt Related Accession #	P07998
GenBank Nucleotide #	NM_198235.2
NCBI Official Full Name	ribonuclease pancreatic
NCBI Official Synonym Full Names	ribonuclease, RNase A family, 1 (pancreatic)
NCBI Official Symbol	RNASE1
NCBI Official Synonym Symbols	RIB1; RNS1
UniProt Protein Name	Ribonuclease pancreatic
UniProt Synonym Protein Names	HP-RNase; RIB-1; RNase UpI-1; Ribonuclease 1; RNase 1; Ribonuclease A; RNase A
Protein Family	Ribonuclease pancreatic
UniProt Gene Name	RNASE1
UniProt Synonym Gene Names	RIB1; RNS1; RNase 1; RNase A
NCBI Protein Information	ribonuclease pancreatic; RIB-1; RNase 1; RNase A; HP-RNase; RNase upI-1; ribonuclease 1; ribonuclease A
NCBI Summary for RNASE1	This gene encodes a member of the pancreatic-type of secretory ribonucleases, a subset of the ribonuclease A superfamily. The encoded endonuclease cleaves internal phosphodiester RNA bonds on the 3'-side of pyrimidine bases. It prefers poly(C) as a substrate and hydrolyzes 2',3'-cyclic nucleotides, with a pH optimum near 8.0. The encoded protein is monomeric and more commonly acts to degrade ds-RNA over ss-RNA. Alternative splicing occurs at this locus and four transcript variants encoding the same protein have been identified. [provided by RefSeq, Jul 2008]
UniProt Comments for RNASE1	Endonuclease that catalyzes the cleavage of RNA on the 3' side of pyrimidine nucleotides. Acts on single-stranded and double-stranded RNA.
Research Articles on RNASE1	**1.** The reduced conformational flexibility of eosinophil cationic protein can be dynamically and functionally reproduced in the RNase A scaffold.
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