Recombinant Human RNASEH1 protein, MYC/DDK-tagged

Cat. No. RNASEH1-4321H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human RNASEH1 fussed with MYC/DDK tag at C-terminal was expressed in HEK293.
Species	Human
Source	HEK293
Description	This gene encodes an endonuclease that specifically degrades the RNA of RNA-DNA hybrids and is necessary for DNA replication and repair. This enzyme is present in both mitochondria and nuclei, which are resulted from translation of a single mRNA with two in-frame initiation start codons. The use of the first start codon produces the mitochondrial isoform and the use of the second start codon produces the nuclear isoform. The production of the mitochondrial isoform is modulated by an upstream open reading frame (uORF) which overlaps the first initiation start codon in human. An alternately spliced transcript variant has been found which encodes a shorter isoform. This gene has three pseudogenes; two of them are on different locations of chromosome 17 and one of them is on chromosome 1q32.2.
Form	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	31.9 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration	>50 ug/mL as determined by microplate BCA method

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GENE INFORMATION

Gene Name	RNASEH1 ribonuclease H1 [Homo sapiens]
Official Symbol	RNASEH1
Synonyms	RNASEH1; ribonuclease H1; RNase H1; ribonuclease H type II; RNH1; H1RNA;
Gene ID	246243
mRNA Refseq	NM_002936
Protein Refseq	NP_002927
MIM	604123
UniProt ID	O60930
Chromosome Location	2p25
Pathway	DNA replication, organism-specific biosystem; DNA replication, conserved biosystem;
Function	RNA binding; endonuclease activity; hydrolase activity; magnesium ion binding; nucleic acid binding; protein homodimerization activity; ribonuclease H activity; ribonuclease activity;

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