



# Anti-RNASEH1 (aa 189-286) polyclonal antibody (DPAB-DC1160)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

<b>Antigen Description</b>	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.
<b>Immunogen</b>	RNASEH1 (NP_002927, 189 a.a. ~ 286 a.a) partial recombinant protein with GST tag. The sequence is  AACKAIEQAKTQNINKLVLYTDSMFTINGITNWVQGWKKNGWKTSAKKEVINKEDFVALE RLTQGMDIQWMHVPGHSGFIGNEEADRLAREGAKQSED
<b>Source/Host</b>	Mouse
<b>Species Reactivity</b>	Human
<b>Conjugate</b>	Unconjugated
<b>Applications</b>	WB (Recombinant protein), ELISA,
<b>Size</b>	50 µl
<b>Buffer</b>	50 % glycerol
<b>Preservative</b>	None
<b>Storage</b>	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

# GENE INFORMATION

Gene Name	<a href="#">RNASEH1 ribonuclease H1 [ Homo sapiens (human) ]</a>
Official Symbol	RNASEH1
Synonyms	RNASEH1; ribonuclease H1; RNH1; H1RNA; RNase H1; ribonuclease H type II;
Entrez Gene ID	<a href="#">246243</a>
Protein Refseq	<a href="#">NP_001273763</a>
UniProt ID	<a href="#">O60930</a>
Chromosome Location	2p25
Pathway	DNA replication;
Function	RNA binding; RNA-DNA hybrid ribonuclease activity; magnesium ion binding; nucleic acid binding