

Datasheet for ABIN7602317

**anti-Ribonuclease H1 antibody (AA 7-223)**[Go to Product page](#)

## Overview

Quantity:	100 µg
Target:	Ribonuclease H1 (RNASEH1)
Binding Specificity:	AA 7-223
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Ribonuclease H1 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunocytochemistry (ICC), Immunofluorescence (IF), Flow Cytometry (FACS)

## Product Details

Purpose:	Anti-RNASEH1 Antibody Picoband®
Immunogen:	E.coli-derived human RNASEH1 recombinant protein (Position: L7-Q223).
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins.
Characteristics:	Anti-RNASEH1 Antibody Picoband® (ABIN7602317). Tested in ELISA, Flow Cytometry, IF, ICC, WB applications. This antibody reacts with Human, Mouse. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Purification:	Immunogen affinity purified.

## Target Details

Target:	Ribonuclease H1 (RNASEH1)
Alternative Name:	RNASEH1 ( <a href="#">RNASEH1 Products</a> )
Background:	<p>Synonyms: Spindle and kinetochore-associated protein 2, Protein FAM33A, SKA2, FAM33A</p> <p>Background: 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 targeted 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.</p>
Molecular Weight:	38 kDa
Gene ID:	246243
UniProt:	<a href="#">O60930</a>

## Application Details

Application Notes:	<p>Western blot, 0.25-0.5 µg/mL, Human, Mouse</p> <p>Immunocytochemistry/Immunofluorescence, 5 µg/mL, Human</p> <p>Flow Cytometry (Fixed), 1-3 µg/1×10<sup>6</sup> cells, Human</p> <p>ELISA, 0.1-0.5 µg/mL, -</p> <p>1. Cerritelli, S. M., Crouch, R. J. Cloning, expression, and mapping of ribonucleases H of human and mouse related to bacterial RNase H1. <i>Genomics</i> 53: 300-307, 1998. 2. Cerritelli, S. M., Frolova, E. G., Feng, C., Grinberg, A., Love, P. E., Crouch, R. J. Failure to produce mitochondrial DNA results in embryonic lethality in Rnaseh1 null mice. <i>Molec. Cell</i> 11: 807-815, 2003. 3. Nowotny, M., Gaidamakov, S. A., Ghirlando, R., Cerritelli, S. M., Crouch, R. J., Yang, W. Structure of human RNase H1 complexed with an RNA/DNA hybrid: insight into HIV reverse transcription. <i>Molec. Cell</i> 28: 264-276, 2007. Note: Erratum: <i>Molec. Cell</i> 28: 513 only, 2007.</p>
Restrictions:	For Research Use only

## Handling

Format:	Lyophilized
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## Handling

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Reconstitution:	Adding 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na <sub>2</sub> HPO <sub>4</sub> .
Storage:	4 °C, -20 °C
Storage Comment:	At -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freezing and thawing.