

Datasheet for ABIN7601572
anti-RNASEH2B antibody (AA 39-260)



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Overview

Quantity:	100 µg
Target:	RNASEH2B
Binding Specificity:	AA 39-260
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This RNASEH2B antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunocytochemistry (ICC), Immunofluorescence (IF), Flow Cytometry (FACS)

Product Details

Purpose:	Anti-RNASEH2B Antibody Picoband®
Immunogen:	E.coli-derived human RNASEH2B recombinant protein (Position: K39-E260).
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins.
Characteristics:	Anti-RNASEH2B Antibody Picoband® (ABIN7601572). Tested in ELISA, Flow Cytometry, IF, ICC, WB applications. This antibody reacts with Human. 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:	RNASEH2B
Alternative Name:	RNASEH2B (RNASEH2B Products)
Background:	<p>Synonyms: Ubiquitin carboxyl-terminal hydrolase 21, Deubiquitinating enzyme 21, Ubiquitin thioesterase 21, Ubiquitin-specific-processing protease 21, USP21, USP23, PP1490</p> <p>Tissue Specificity: Highly expressed in heart, pancreas and skeletal muscle. Also expressed in brain, placenta, liver and kidney, and at very low level in lung.</p> <p>Background: Ribonuclease H2, subunit B is a protein that in humans is encoded by the RNASEH2B gene. RNase H2 is composed of a single catalytic subunit (A) and two non-catalytic subunits (B and C) and specifically degrades the RNA of RNA:DNA hybrids. The protein encoded by this gene is the non-catalytic B subunit of RNase H2, which is thought to play a role in DNA replication. Multiple transcript variants encoding different isoforms have been found for this gene. Defects in this gene are a cause of Aicardi-Goutieres syndrome type 2 (AGS2).</p>
Molecular Weight:	35 kDa
Gene ID:	79621

Application Details

Application Notes:	<p>Western blot, 0.25-0.5 µg/mL, Human</p> <p>Immunocytochemistry/Immunofluorescence, 5 µg/mL, Human</p> <p>Flow Cytometry (Fixed), 1-3 µg/1x10⁶ cells, Human</p> <p>ELISA, 0.1-0.5 µg/mL, -</p> <p>1. Crow, Y. J., Leitch, A., Hayward, B. E., Garner, A., Parmar, R., Griffith, E., Ali, M., Semple, C., Aicardi, J., Babul-Hirji, R., Baumann, C., Baxter, P., and 33 others. Mutations in genes encoding ribonuclease H2 subunits cause Aicardi-Goutieres syndrome and mimic congenital viral brain infection. <i>Nature Genet.</i> 38: 910-916, 2006. 2. Crow, Y. J., Zaki, M. S., Abdel-Hamid, M. S., Abdel-Salam, G., Boespflug-Tanguy, O., Cordeiro, N. J. V., Gleeson, J. G., Gowrinathan, N. R., Laugel, V., Renaldo, F., Rodriguez, D., Livingston, J. H., Rice, G. I. Mutations in ADAR1, IFIH1, and RNASEH2B presenting as spastic paraplegia. <i>Neuropediatrics</i> 45: 386-391, 2014. 3. Kind, B., Muster, B., Staroske, W., Herce, H. D., Sachse, R., Rapp, A., Schmidt, F., Koss, S., Cardoso, M. C., Lee-Kirsch, M. A. Altered spatio-temporal dynamics of RNase H2 complex assembly at replication and repair sites in Aicardi-Goutieres syndrome. <i>Hum. Molec. Genet.</i> 23: 5950-5960, 2014.</p>
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
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 ₂ HPO ₄ .
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.