

Datasheet for ABIN7599331
anti-NSUN4 antibody (AA 1-379)



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Overview

Quantity:	100 µg
Target:	NSUN4
Binding Specificity:	AA 1-379
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This NSUN4 antibody is un-conjugated
Application:	ELISA, Western Blotting (WB)

Product Details

Purpose:	Anti-NSUN4 Antibody Picoband®
Immunogen:	E.coli-derived human NSUN4 recombinant protein (Position: M1-K379). Human NSUN4 shares 86.3% amino acid (aa) sequence identity with mouse NSUN4.
Characteristics:	Anti-NSUN4 Antibody Picoband® (ABIN7599331). Tested in WB, ELISA 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:	NSUN4
Alternative Name:	NSUN4 (NSUN4 Products)
Background:	NSUN4 belongs to a family of RNA 5-methylcytosine (m5C) methyltransferases (MTases). MTERF4 recruits NSUN4 to the large ribosomal subunit in a process crucial for mitochondrial ribosome biogenesis. NSUN4 is a dual function protein, which on the one hand is needed for 12S rRNA methylation, and on the other hand interacts with MTERF4 to facilitate mitochondrial assembly. The calculated MW of NSUN4 is 43 kDa, 29786-1-AP can detect the band around 40 kDa.
Molecular Weight:	40 kDa
Gene ID:	387338

Application Details

Application Notes:	Western blot, 0.25-0.5 µg/mL, Human ELISA, 0.1-0.5 µg/mL, - 1. Camara, Y., Asin-Cayuela, J., Park, C. B., Metodiev, M. D., Shi, Y., Ruzzenente, B., Kukat, C., Habermann, B., Wibom, R., Hultenby, K., Franz, T., Erdjument-Bromage, H., Tempst, P., Hallberg, B. M., Gustafsson, C. M., Larsson, N.-G. MTERF4 regulates translation by targeting the methyltransferase NSUN4 to the mammalian mitochondrial ribosome. <i>Cell Metab.</i> 13: 527-539, 2011. 2. Hartz, P. A. Personal Communication. Baltimore, Md. 8/30/2013. 3. Spahr, H., Habermann, B., Gustafsson, C. M., Larsson, N.-G., Hallberg, B. M. Structure of the human MTERF4-NSUN4 protein complex that regulates mitochondrial ribosome biogenesis. <i>Proc. Nat. Acad. Sci.</i> 109: 15253-15258, 2012.
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.