

Datasheet for ABIN2783512
anti-NSUN2 antibody (C-Term)[Go to Product page](#)

1 Image

1 Publication

Overview

Quantity:	100 µL
Target:	NSUN2
Binding Specificity:	C-Term
Reactivity:	Human, Mouse, Rat, Cow, Dog, Horse, Guinea Pig, Rabbit, Pig
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This NSUN2 antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Immunogen:	The immunogen is a synthetic peptide directed towards the C terminal region of human NSUN2
Sequence:	FINSRIITVS MEDVKILLTQ ENPFFRKLSS ETYSQAKDLA KGSIVLKYEP
Predicted Reactivity:	Cow: 100%, Dog: 100%, Guinea Pig: 93%, Horse: 100%, Human: 100%, Mouse: 100%, Pig: 100%, Rabbit: 93%, Rat: 100%
Characteristics:	This is a rabbit polyclonal antibody against NSUN2. It was validated on Western Blot using a cell lysate as a positive control.
Purification:	Affinity Purified

Target Details

Target:	NSUN2
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Target Details

Alternative Name:	NSUN2 (NSUN2 Products)
Background:	<p>Maturation of cytoplasmic tRNAs includes splicing of introns, which are located 1 nucleotide 3-prime from the anticodon in all intron-containing tRNA genes. In tRNA-leu(CAA), the first position of the anticodon, C34, is converted to 5-methylcytosine, a modification necessary to stabilize the anticodon-codon pairing and correctly translate the mRNA. NSUN2 is a methyltransferase that catalyzes the intron-dependent formation of 5-methylcytosine at C34 of tRNA-leu(CAA). Maturation of cytoplasmic tRNAs includes splicing of introns, which are located 1 nucleotide 3-prime from the anticodon in all intron-containing tRNA genes. In tRNA-leu(CAA), the first position of the anticodon, C34, is converted to 5-methylcytosine, a modification necessary to stabilize the anticodon-codon pairing and correctly translate the mRNA. NSUN2 encodes a methyltransferase that catalyzes the intron-dependent formation of 5-methylcytosine at C34 of tRNA-leu(CAA) (Brzezicha et al., 2006 [PubMed 17071714]). [supplied by OMIM].</p> <p>Alias Symbols: FLJ20303, MISU, SAKI, TRM4</p> <p>Protein Interaction Partner: SUMO2, SUMO3, UBC, SUMO1, NEDD8, TP53RK, PUS1, EFTUD1, XPO5, UGGT1, OSGEP, PANK4, THG1L, SH3GLB1, KIAA1279, UBXN7, TTLL12, ARPC2, ACTR2, ACTR3, FUBP1, TSN, SH3GL1, RPA1, RDX, RANGAP1, PPP2CB, PFDN5, PFDN1, NRD1, PPP1R12A, HARS, GTF2E1, CALU, CALR, UBD, VC</p> <p>Protein Size: 767</p>
Molecular Weight:	86 kDa
Gene ID:	54888
NCBI Accession:	NM_017755 , NP_060225
UniProt:	Q08J23

Application Details

Application Notes:	Optimal working dilutions should be determined experimentally by the investigator.
Comment:	Antigen size: 767 AA
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	Lot specific

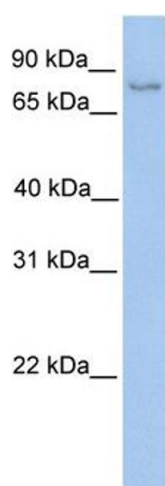
Handling

Buffer:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09 % (w/v) sodium azide and 2 % sucrose.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-20 °C
Storage Comment:	For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.

Publications

Product cited in:	Ewing, Chu, Elisma, Li, Taylor, Climie, McBroom-Cerajewski, Robinson, OConnor, Li, Taylor, Dharsee, Ho, Heilbut, Moore, Zhang, Ornatsky, Bukhman, Ethier, Sheng, Vasilescu, Abu-Farha, Lambert, Duewel et al.: "Large-scale mapping of human protein-protein interactions by mass spectrometry. ..." in: Molecular systems biology , Vol. 3, pp. 89, (2007) (PubMed).
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Images



Western Blotting

Image 1. WB Suggested Anti-NSUN2 Antibody Titration: 0.2-1 ug/ml Positive Control: Hela cell lysate