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NSUN5 Rabbit pAb

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Catalog # AP57538

Product Information

Application	WB
Primary Accession	Q96P11
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	46692
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human NSUN5
Epitope Specificity	2-100/429
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
DISEASE	Note=NSUN5 is located in the Williams-Beuren syndrome (WBS) critical region. WBS results from a hemizygous deletion of several genes on chromosome 7q11.23, thought to arise as a consequence of unequal crossing over between highly homologous low-copy repeat sequences flanking the deleted region.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	This gene encodes a member of an evolutionarily conserved family of proteins that may function as methyltransferases. This gene is located in a larger region of chromosome 7 that is deleted in Williams-Beuren syndrome, a multisystem developmental disorder. There are two pseudogenes for this gene located in the same region of chromosome 7. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Jul 2013]

Additional Information

Gene ID	55695
Other Names	28S rRNA (cytosine-C(5))-methyltransferase, 2.1.1.-, NOL1-related protein {ECO:0000312|HGNC:HGNC:16385}, NOL1R {ECO:0000312|HGNC:HGNC:16385}, NOL1/NOP2/Sun domain family member 5, Williams-Beuren syndrome chromosomal region 20A protein, NSUN5 {ECO:0000303|PubMed:23913415, ECO:0000312|HGNC:HGNC:16385}
Dilution	WB=1:500-2000
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody

is stable for at least two weeks at 2-4 °C.

Protein Information

Name	NSUN5 {ECO:0000303|PubMed:23913415, ECO:0000312|HGNC:HGNC:16385}
Function	S-adenosyl-L-methionine-dependent methyltransferase that specifically methylates the C(5) position of cytosine 3782 (m5C3782) in 28S rRNA (PubMed:23913415, PubMed:31428936, PubMed:31722427). m5C3782 promotes protein translation without affecting ribosome biogenesis and fidelity (PubMed:31428936, PubMed:31722427). Required for corpus callosum and cerebral cortex development (By similarity).
Cellular Location	Nucleus, nucleolus.
Tissue Location	Ubiquitous (PubMed:11978965, PubMed:12073013). Detected in placenta, heart and skeletal muscle (PubMed:11978965, PubMed:12073013).

Background

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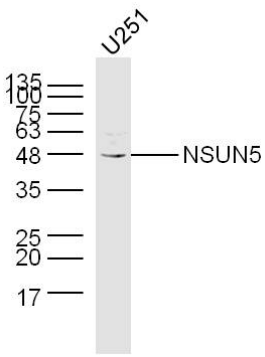
Images



Protein: U251(human)cell lyates at 40ug;
Primary: Rabbit Anti-NSUN5 (AP57538) at 1:300;
Secondary: 800CW Conjugated Goat (polyclonal) Anti-Rabbit IgG(H+L) at 1: 10000;
Predicted band size:47 kD
Observed band size:47 kD