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DUS2L Rabbit pAb

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Catalog # AP55580

Product Information

Application	WB
Primary Accession	Q9NX74
Reactivity	Mouse, Rat
Predicted	Human, Pig, Horse, Rabbit, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	55050
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human DUS2L
Epitope Specificity	101-200/493
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Cytoplasmic and Endoplasmic reticulum. Note=Mainly at the endoplasmic reticulum.
SIMILARITY	Belongs to the dus family. Dus2 subfamily.Contains 1 DRBM (double-stranded RNA-binding) domain.
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 cytoplasmic protein that catalyzes the conversion of uridine residues to dihydrouridine in the D-loop of tRNA. The resulting modified bases confer enhanced regional flexibility to tRNA. The encoded protein may increase the rate of translation by inhibiting an interferon-induced protein kinase. This gene has been implicated in pulmonary carcinogenesis. Alternatively spliced transcript variants have been described for this gene. [provided by RefSeq, Nov 2012]

Additional Information

Gene ID	54920
Other Names	tRNA-dihydrouridine(20) synthase [NAD(P)+]-like, 1.3.1.91, Dihydrouridine synthase 2, Up-regulated in lung cancer protein 8, URLC8, tRNA-dihydrouridine synthase 2-like, hDUS2, DUS2, DUS2L
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.

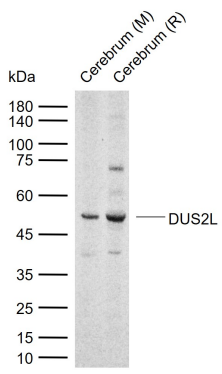
Protein Information

Name	DUS2
Synonyms	DUS2L
Function	Catalyzes the NADPH-dependent synthesis of dihydrouridine, a modified base found in the D-loop of most tRNAs (PubMed:15994936, PubMed:26429968, PubMed:30149704, PubMed:34798057, PubMed:38680565). Specifically modifies U20 in cytoplasmic tRNAs (PubMed:38680565). Activity depends on the presence of guanosine at position 19 in the tRNA substrate (PubMed:38680565). Negatively regulates the activation of EIF2AK2/PKR (PubMed:18096616).
Cellular Location	Cytoplasm. Endoplasmic reticulum. Note=Mainly at the endoplasmic reticulum.
Tissue Location	Weak expression in heart, placenta and skeletal muscle. Up-regulated in most lung cancer cells (at protein level)

Background

This gene encodes a cytoplasmic protein that catalyzes the conversion of uridine residues to dihydrouridine in the D-loop of tRNA. The resulting modified bases confer enhanced regional flexibility to tRNA. The encoded protein may increase the rate of translation by inhibiting an interferon-induced protein kinase. This gene has been implicated in pulmonary carcinogenesis. Alternatively spliced transcript variants have been described for this gene. [provided by RefSeq, Nov 2012]

Images



Sample:
Lane 1: Mouse Cerebrum tissue lysates
Lane 2: Rat Cerebrum tissue lysates
Primary: Anti-DUS2L (AP55580) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 55 kDa
Observed band size: 55 kDa