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RPUSD2 Rabbit pAb

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Catalog # AP59311

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q8IZ73
Reactivity	Rat, Mouse
Predicted	Dog, Human, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	61311
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human RPUSD2
Epitope Specificity	251-350/545
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	RPUSD2, is a 545 amino acid member of the pseudouridine synthase rluA family and is encoded by a gene that is located on chromosome 15. Encoding more than 700 genes, chromosome 15 is made up of approximately 106 million base pairs and is about 3% of the human genome. Angelman and Prader-Willi syndromes are associated with loss of function or deletion of genes in the 15q11-q13 region. In the case of Angelman syndrome, this loss is due to inactivity of the maternal 15q11-q13 encoded UBE3A gene in the brain by either chromosomal deletion or mutation. In cases of Prader-Willi syndrome, there is a partial or complete deletion of this region from the paternal copy of chromosome 15. Tay-Sachs disease is a lethal disorder associated with mutations of the HEXA gene, which is encoded by chromosome 15. Marfan syndrome is associated with chromosome 15 through the FBN1 gene.

Additional Information

Gene ID	27079
Other Names	Pseudouridylate synthase RPUSD2, 5.4.99.-, RNA pseudouridylate synthase domain-containing protein 2, RPUSD2 {ECO:0000303|PubMed:31477916, ECO:0000312|HGNC:HGNC:24180}
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
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.

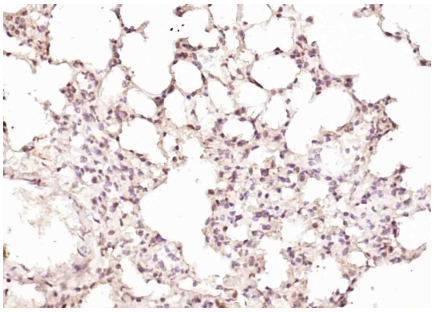
Protein Information

Name	RPUSD2 {ECO:0000303|PubMed:31477916, ECO:0000312|HGNC:HGNC:24180}
Function	Pseudouridine synthase that catalyzes pseudouridylation of mRNAs (PubMed:31477916, PubMed:35051350). In addition, it catalyzes the formation of pseudouridine mainly at positions 31 and 32 in the anticodon loop of cytosolic and mitochondrial tRNAs, and at position 34 of certain cytosolic tRNAs such as tRNA(Ile) (PubMed:41136621, PubMed:41698914).

Background

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Images



Paraformaldehyde-fixed, paraffin embedded (mouse lung); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (RPUSD2) Polyclonal Antibody, Unconjugated (AP59311) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.

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