

PUS7 Rabbit pAb

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Catalog # AP57591

Product Information

Application	WB
Primary Accession	Q96PZ0
Reactivity	Human
Predicted	Rat, Pig, Mouse, Rabbit, Chicken, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	75035
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human PUS7
Epitope Specificity	371-470/661
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.

Additional Information

Gene ID	54517
Other Names	Pseudouridylate synthase 7 homolog, 5.4.99.-, PUS7 {ECO:0000303 PubMed:30526862, ECO:0000312 HGNC:HGNC:26033}
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	PUS7 {ECO:0000303 PubMed:30526862, ECO:0000312 HGNC:HGNC:26033}
Function	Pseudouridylate synthase that catalyzes pseudouridylation of RNAs (PubMed: 28073919 , PubMed: 29628141 , PubMed: 30778726 , PubMed: 31477916 , PubMed: 34718722 , PubMed: 35051350). Acts as a regulator of protein synthesis in embryonic stem cells by mediating pseudouridylation of RNA fragments derived from tRNAs (tRFs): pseudouridylated tRFs inhibit translation by targeting the translation initiation complex (PubMed: 29628141). Also catalyzes pseudouridylation of mRNAs:

mediates pseudouridylation of mRNAs with the consensus sequence 5'-UGUAG-3' (PubMed:[28073919](#), PubMed:[31477916](#), PubMed:[35051350](#)). Acts as a regulator of pre-mRNA splicing by mediating pseudouridylation of pre-mRNAs at locations associated with alternatively spliced regions (PubMed:[35051350](#)). Pseudouridylation of pre-mRNAs near splice sites directly regulates mRNA splicing and mRNA 3'-end processing (PubMed:[35051350](#)). In addition to mRNAs and tRNAs, binds other types of RNAs, such as snRNAs, Y RNAs and vault RNAs, suggesting that it can catalyze pseudouridylation of many RNA types (PubMed:[29628141](#)).

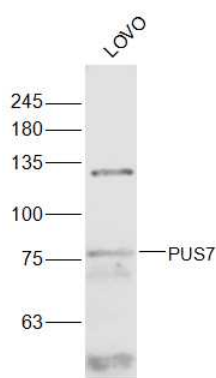
Cellular Location

Nucleus

Background

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Images



Sample:

LOVO(Human) Cell Lysate at 30 ug

Primary: Anti-PUS7 (AP57591) at 1/300 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 75 kD

Observed band size: 75 kD

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.