

PUS7 Polyclonal Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP57591

Specification

PUS7 Polyclonal Antibody - Product Information

Application	WB
Primary Accession	Q96PZ0
Reactivity	Rat, Pig
Host	Rabbit
Clonality	Polyclonal
Calculated MW	75035

PUS7 Polyclonal Antibody - Additional Information

Gene ID 54517

Other Names

Pseudouridylate synthase 7 homolog, 5.4.99.-, PUS7 ([HGNC:26033](http://www.genenames.org/cgi-bin/gene_symbol_report?hgnc_id=26033))

Format

0.01M TBS(pH7.4), 0.09% (W/V) sodium azide and 50% Glycerol

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.

PUS7 Polyclonal Antibody - 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:35051350, PubMed:34718722). 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:30778726, PubMed:35051350, PubMed:29628141).

<http://www.uniprot.org/citations/35051350> target="_blank">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

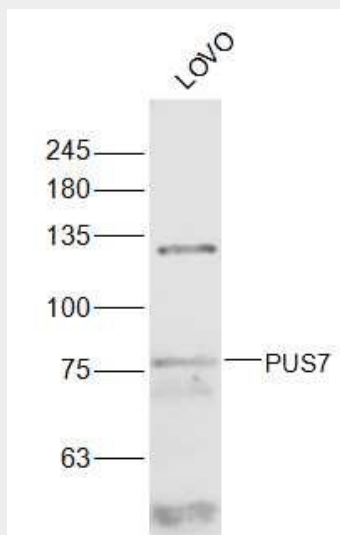
Nucleus

PUS7 Polyclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

PUS7 Polyclonal Antibody - Images



Sample:

LOVO(Human) Cell Lysate at 30 ug

Primary: Anti-PUS7 (bs-19597R) at 1/300 dilution

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

Predicted band size: 75 kD

Observed band size: 75 kD