

PUS1 Antibody (C-term)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP12835b

Specification

PUS1 Antibody (C-term) - Product Information

Application	WB, IHC-P,E
Primary Accession	Q9Y606
Other Accession	NP_001002019.1 , NP_079491.2
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit Ig
Calculated MW	47470
Antigen Region	322-350

PUS1 Antibody (C-term) - Additional Information

Gene ID 80324

Other Names

tRNA pseudouridine synthase A,
mitochondrial, tRNA pseudouridine(38-40)
synthase, tRNA pseudouridylation synthase I,
tRNA-uridine isomerase I, PUS1

Target/Specificity

This PUS1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 322-350 amino acids from the C-terminal region of human PUS1.

Dilution

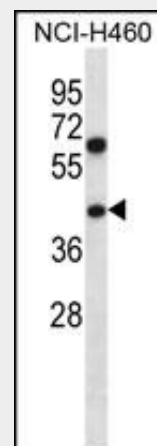
WB~~1:1000
IHC-P~~1:10~50

Format

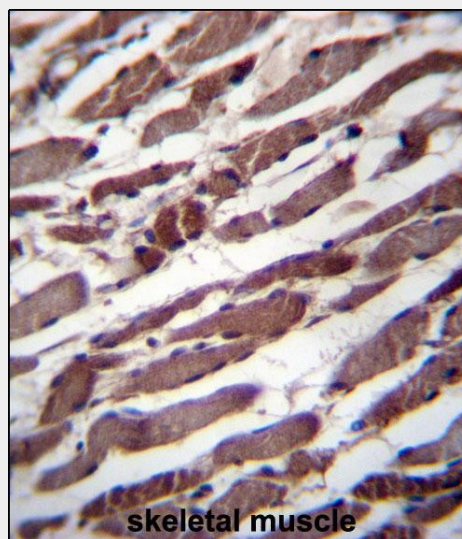
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.



PUS1 Antibody (C-term) (Cat. #AP12835b) western blot analysis in NCI-H460 cell line lysates (35ug/lane). This demonstrates the PUS1 antibody detected the PUS1 protein (arrow).



PUS1 Antibody (C-term) (Cat. #AP12835b) immunohistochemistry analysis in formalin fixed and paraffin embedded human skeletal muscle followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of PUS1 Antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.

Precautions

PUS1 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

PUS1 Antibody (C-term) - Protein Information

Name PUS1

Function

Converts specific uridines to PSI in a number of tRNA substrates. Acts on positions 27/28 in the anticodon stem and also positions 34 and 36 in the anticodon of an intron containing tRNA. Involved in regulation of nuclear receptor activity through pseudouridylation of SRA1 RNA.

Cellular Location

[Isoform 1]: Mitochondrion

Tissue Location

Widely expressed. High levels of expression found in brain and skeletal muscle.

PUS1 Antibody (C-term) - 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](#)

PUS1 Antibody (C-term) - Background

This gene encodes a pseudouridine synthase that converts uridine to pseudouridine once it has been incorporated into an RNA molecule. The encoded enzyme may play an essential role in tRNA function and in stabilizing the secondary and tertiary structure of many RNAs. A mutation in this gene has been linked to mitochondrial myopathy and sideroblastic anemia. Alternate splicing results in multiple transcript variants.

PUS1 Antibody (C-term) - References

Bergmann, A.K., et al. *Pediatr Blood Cancer* 54(2):273-278(2010)
Sibert, B.S., et al. *RNA* 14(9):1895-1906(2008)
Rikova, K., et al. *Cell* 131(6):1190-1203(2007)
Sugiyama, N., et al. *Mol. Cell Proteomics* 6(6):1103-1109(2007)
Fernandez-Vizarra, E., et al. *J. Med. Genet.* 44(3):173-180(2007)