

**DUS2L Polyclonal Antibody**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP55580****Specification**

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**DUS2L Polyclonal Antibody - Product Information**

Application	WB, IHC-P, IHC-F, IF, ICC, E
Primary Accession	<a href="#">Q9NX74</a>
Reactivity	Rat, Pig, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	55 KDa
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human DUS2L
Epitope Specificity	101-200/493
Isotype	IgG
<b>Purity</b>	
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]

**DUS2L Polyclonal Antibody - 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**

<span class = "dilution\_WB">WB~~1:1000</span><br \><span class = "dilution\_IHC-P">IHC-P~~N/A</span><br \><span class = "dilution\_IHC-F">IHC-F~~N/A</span><br \><span class = "dilution\_IF">IF~~1:50~200</span><br \><span class = "dilution\_ICC">ICC~~N/A</span><br \><span class = "dilution\_E">E~~N/A</span>

### 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.

## DUS2L Polyclonal Antibody - 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:<a href="http://www.uniprot.org/citations/15994936" target="\_blank">15994936</a>, PubMed:<a href="http://www.uniprot.org/citations/26429968" target="\_blank">26429968</a>, PubMed:<a href="http://www.uniprot.org/citations/30149704" target="\_blank">30149704</a>, PubMed:<a href="http://www.uniprot.org/citations/34798057" target="\_blank">34798057</a>, PubMed:<a href="http://www.uniprot.org/citations/38680565" target="\_blank">38680565</a>). Specifically modifies U20 in cytoplasmic tRNAs (PubMed:<a href="http://www.uniprot.org/citations/38680565" target="\_blank">38680565</a>). Activity depends on the presence of guanosine at position 19 in the tRNA substrate (PubMed:<a href="http://www.uniprot.org/citations/38680565" target="\_blank">38680565</a>). Negatively regulates the activation of EIF2AK2/PKR (PubMed:<a href="http://www.uniprot.org/citations/18096616" target="\_blank">18096616</a>).

### 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)

## DUS2L 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](#)

## DUS2L Polyclonal Antibody - Images