

Anti-DUS2L Antibody

Catalog # AP53951

Product Information

Application	WB, IHC
Primary Accession	Q9NX74
Reactivity	Human, Mouse, Rat, Mk
Host	Rabbit
Clonality	Polyclonal
Calculated MW	55050

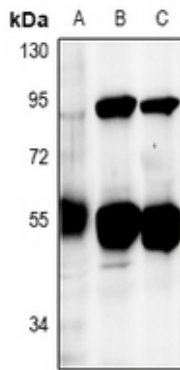
Additional Information

Gene ID	54920
Other Names	DUS2L; tRNA-dIHCydrouridine(20) synthase [NAD(P)+]-like; DIHCydrouridine synthase 2; Up-regulated in lung cancer protein 8; URLC8; tRNA-dIHCydrouridine synthase 2-like; hDUS2
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the C-term region of human DUS2L. The exact sequence is proprietary.
Dilution	WB~~1/500 - 1/1000 IHC~~1/50 - 1/100
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

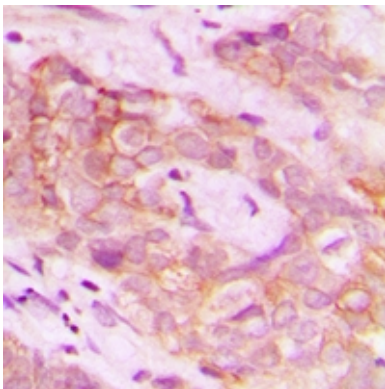
Protein Information

Name	DUS2
Synonyms	DUS2L
Function	Catalyzes the NADPH-dependent synthesis of dihydrouridine, a modified base found in the D-loop of most tRNAs (PubMed: 15994936 , PubMed: 26429968 , PubMed: 30149704 , PubMed: 34798057 , PubMed: 38680565). Specifically modifies U20 in cytoplasmic tRNAs (PubMed: 38680565). Activity depends on the presence of guanosine at position 19 in the tRNA substrate (PubMed: 38680565). Negatively regulates the activation of EIF2AK2/PKR (PubMed: 18096616).
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

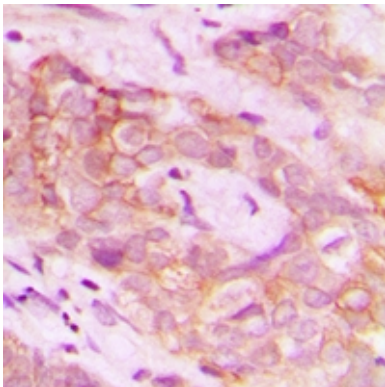
Images



Western blot analysis of DUS2L expression in HCT116 (A), mouse lung (B), rat lung (C) whole cell lysates. (Predicted band size: 55 kD; Observed band size: 55 kD)



Immunohistochemical analysis of DUS2L staining in human breast cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



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