

DENR Antibody (Center)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP20311c

Specification

DENR Antibody (Center) - Product Information

Application	WB,E
Primary Accession	O43583
Other Accession	O9CQJ6 , Q2HJ47
Reactivity	Human
Predicted	Bovine, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	22092
Antigen Region	47-76

DENR Antibody (Center) - Additional Information

Gene ID 8562

Other Names

Density-regulated protein, DRP, Protein DRP1, Smooth muscle cell-associated protein 3, SMAP-3, DENR, DRP1

Target/Specificity

This DENR antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 47-76 amino acids from the Central region of human DENR.

Dilution

WB~~1:2000

E~~Use at an assay dependent concentration.

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.

Precautions

DENR Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

DENR Antibody (Center) - Protein Information

Name DENR

Synonyms DRP1

Function Translation regulator forming a complex with MCTS1 to promote translation reinitiation. Translation reinitiation is the process where the small ribosomal subunit remains attached to the mRNA following termination of translation of a regulatory upstream ORF (uORF), and resume scanning on the same mRNA molecule to initiate translation of a downstream ORF, usually the main ORF (mORF). The MCTS1/DENR complex is pivotal to two linked mechanisms essential for translation reinitiation. Firstly, the dissociation of deacylated tRNAs from post- termination 40S ribosomal complexes during ribosome recycling. Secondly, the recruitment in an EIF2-independent manner of aminoacylated initiator tRNA to P site of 40S ribosomes for a new round of translation. This regulatory mechanism governs the translation of more than 150 genes which translation reinitiation is MCTS1/DENR complex-dependent.

Cellular Location

Cytoplasm.

Tissue Location

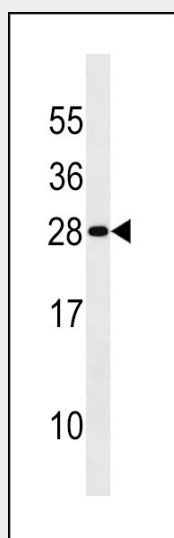
Highly expressed in heart and skeletal muscle and moderately expressed in the brain, placenta, liver and pancreas. Weakly expressed in the lung and kidney.

DENR Antibody (Center) - Protocols

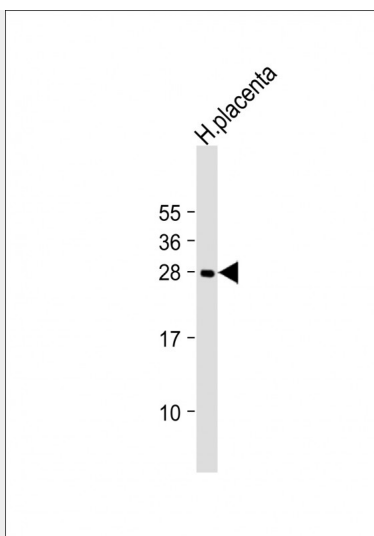
Provided below are standard protocols that you may find useful for product applications.

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

DENR Antibody (Center) - Images



DENR Antibody (Center) (Cat. #AP20311c) western blot analysis in 293 cell line lysates (35ug/lane). This demonstrates the DENR antibody detected the DENR protein (arrow).



Anti-DENR Antibody (Center) at 1:2000 dilution + human placenta lysate Lysates/proteins at 20 μ g per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 22 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

DENR Antibody (Center) - Background

May be involved in the translation of target mRNAs by scanning and recognition of the initiation codon. Plays a role in the modulation of the translational profile of a subset of cancer-related mRNAs when recruited to the translational initiation complex by the oncogene MCTS1.