

DENR Antibody
Catalog # ASC11786**Specification****DENR Antibody - Product Information**

Application	WB, IHC, IF
Primary Accession	O43583
Other Accession	NP_003668 , 27501446
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	Predicted: 22 kDa

Application Notes	Observed: 22 kDa KDa DENR antibody can be used for detection of DENR by Western blot at 1 - 2 µg/ml. Antibody can also be used for Immunohistochemistry at 5 µg/mL. For Immunofluorescence start at 20 µg/mL.
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DENR Antibody - Additional Information

Gene ID	8562
Target/Specificity	
DENR; DENR antibody is human, mouse and rat reactive.	

Reconstitution & Storage

DENR antibody can be stored at 4°C for three months and -20°C, stable for up to one year.

Precautions

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

DENR Antibody - Protein Information

Name DENR

Synonyms DRP1

Function

May be involved in the translation of target mRNAs by scanning and recognition of the initiation codon. Involved in translation initiation; promotes recruitment of aminoacylated initiator tRNA to P site of 40S ribosomes. Can promote release of deacylated tRNA and mRNA from recycled 40S subunits following ABCE1-mediated dissociation of post-termination ribosomal complexes into subunits. 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.

Tissue Location

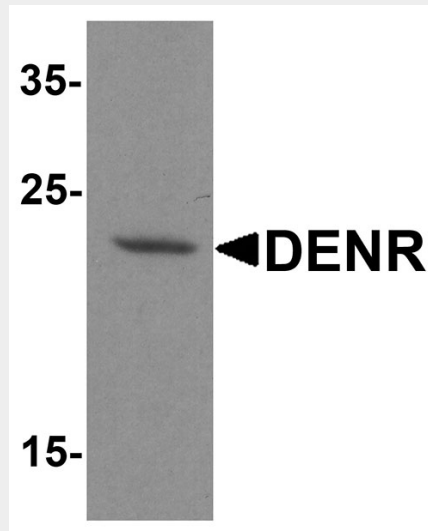
Highly expressed in heart and skeletal muscle and moderately expressed in the brain, placenta, liver and pancreas. Weakly expressed in the lung and kidney.

DENR Antibody - Protocols

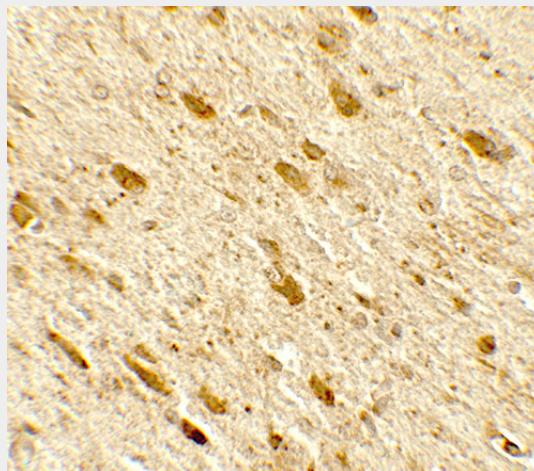
Provided below are standard protocols that you may find useful for product applications.

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

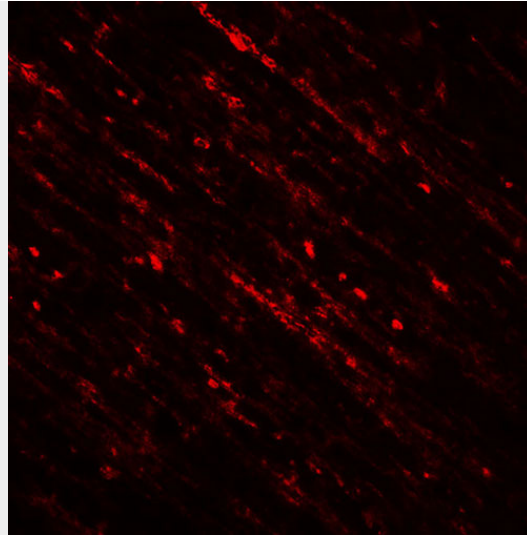
DENR Antibody - Images



Western blot analysis of DENR in human brain tissue lysate with DENR antibody at 1 µg/ml.



Immunohistochemistry of DENR in rat brain tissue with DENR antibody at 5 µg/mL.



Immunofluorescence of DENR in rat brain tissue with DENR antibody at 20 µg/mL.

DENR Antibody - Background

DENR (density-regulated protein), also designated DRP or smooth muscle cell associated protein 3 (SMAP-3), is a 198 amino acid protein that may be involved in the translation of target mRNAs by scanning and recognition of the initiation codon (1). It 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 (2,3). DENR contains a SUI1 domain and is found in a variety of tissues with highest levels present in skeletal and cardiac muscle. It is up-regulated in ovarian and breast cancer cells by ERBB2 overexpression (4).

DENR Antibody - References

- Deyo JE, Chiao PJ, Tainsky MA. DRP, a novel protein expressed at high cell density but not during growth arrest. *DNA Cell Biol.* 1998; 17:437-47.
- Skabkin MA, Skabkina OV, Dhote V, et al. Activities of Ligatin and MCT-1/DENR in eukaryotic translation initiation and ribosomal recycling. *Genes Dev.* 2010; 24:1787-801.
- Mazan-Mamczarz K and Gartenhaus RB. Post-transcriptional control of the MCT1-associated protein DENR/DRP by RNA-binding protein AUF1. *Cancer Genomics Proteomics* 2007; 4:233-9.
- Oh JJ, Grosshans DR, Wong SG et al. Identification of differentially expressed genes associated with HER-2/neu overexpression in human breast cancer cells. *Nucleic Acids Res.* 1999; 27:4008-17.