

DENR / Density Regulated Antibody (aa148-198)
Rabbit Polyclonal Antibody
Catalog # ALS16373**Specification**

DENR / Density Regulated Antibody (aa148-198) - Product Information

Application	IHC
Primary Accession	O43583
Reactivity	Human, Mouse, Rat, Chicken, Goat, Xenopus, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	22kDa KDa

DENR / Density Regulated Antibody (aa148-198) - 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

Region between residue 148 and 198 of human Density-Regulated Protein using the numbering given in entry NP_003668.2 (GeneID 8562).

Reconstitution & Storage

Store at 2-8°C for up to 1 year.

Precautions

DENR / Density Regulated Antibody (aa148-198) is for research use only and not for use in diagnostic or therapeutic procedures.

DENR / Density Regulated Antibody (aa148-198) - 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.

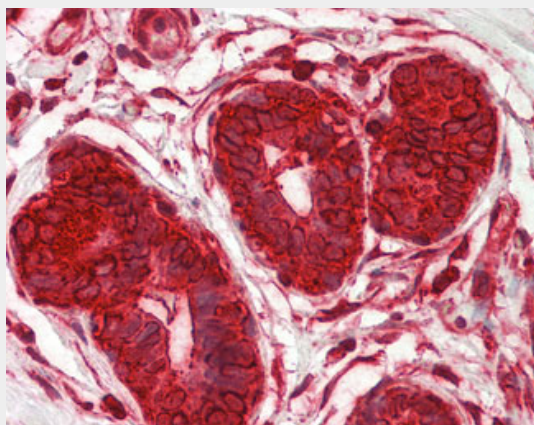
Volume

50 μ l

DENR / Density Regulated Antibody (aa148-198) - 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 / Density Regulated Antibody (aa148-198) - Images

Human Breast: Formalin-Fixed, Paraffin-Embedded (FFPE)

DENR / Density Regulated Antibody (aa148-198) - Background

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.

DENR / Density Regulated Antibody (aa148-198) - References

Deyo J.E.,et al.DNA Cell Biol. 17:437-447(1998).
Nishimoto S.,et al.Submitted (MAY-1998) to the EMBL/GenBank/DDBJ databases.
Scherer S.E.,et al.Nature 440:346-351(2006).
Oh J.J.,et al.Nucleic Acids Res. 27:4008-4017(1999).
Reinert L.S.,et al.Cancer Res. 66:8994-9001(2006).