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Density Regulated Protein Rabbit pAb

Catalog # AP99353

Product Information

Application	WB, IHC-P, IHC-F, IF
Primary Accession	O43583
Other Accession	O43583
Reactivity	Mouse
Predicted	Rat, Pig, Human, Chicken, Dog, Horse, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	22092
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human Density Regulated Protein
Epitope Specificity	51-150/198
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the DENR family. Contains 1 SUI1 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 protein whose expression was found to increase in cultured cells at high density but not during growth arrest. This gene was also shown to have increased expression in cells overexpressing HER-2/neu proto-oncogene. The protein contains an SUI1 domain. In budding yeast, SUI1 is a translation initiation factor that along with eIF-2 and the initiator tRNA-Met, directs the ribosome to the proper translation start site. Proteins similar to SUI have been found in mammals, insects, and plants. [provided by RefSeq, Jul 2008]

Additional Information

Gene ID	8562
Other Names	DRP; DRP1; SMAP-3; 1500003K04Rik; XELAEV_18007798mg; denr; DENR_CHICK; DENR_BOVIN; DENR_HUMAN; Protein DRP1; Smooth muscle cell-associated protein 3 (SMAP-3); DENR_MOUSE; DENR_XENLA; DENR_XENTR; density regulated re-initiation and release factor; density-regulated protein; smooth muscle cell-associated protein 3
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
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.

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.

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