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DDX18 Rabbit pAb

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Catalog # AP55466

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q9NVP1
Predicted	Rat, Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	75407
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human DDX18
Epitope Specificity	581-670/670
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	DEAD box proteins, characterized by the conserved motif Asp-Glu-Ala-Asp (DEAD), are putative RNA helicases. They are implicated in a number of cellular processes involving alteration of RNA secondary structure such as translation initiation, nuclear and mitochondrial splicing, and ribosome and spliceosome assembly. Based on their distribution patterns, some members of this family are believed to be involved in embryogenesis, spermatogenesis, and cellular growth and division. This gene encodes a DEAD box protein, and it is activated by Myc protein. [provided by RefSeq, Jul 2008]

Additional Information

Gene ID	8886
Other Names	ATP-dependent RNA helicase DDX18, 3.6.4.13, DEAD box protein 18, Myc-regulated DEAD box protein, MrDb, DDX18, cPERP-D {ECO:0000303|PubMed:20813266}
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500,ELISA=1:5000-10000
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	DDX18
Synonyms	cPERP-D {ECO:0000303|PubMed:20813266}
Function	ATP-dependent RNA helicase that plays a role in the regulation of R-loop homeostasis in both endogenous R-loop-prone regions and at sites of DNA damage. At endogenous loci such as actively transcribed genes, may act as a helicase to resolve the formation of R- loop during transcription and prevent the interference of R-loop with DNA-replication machinery. Also participates in the removal of DNA- lesion-associated R-loop (PubMed:35858569). Plays an essential role for establishing pluripotency during embryogenesis and for pluripotency maintenance in embryonic stem cells. Mechanistically, prevents the polycomb repressive complex 2 (PRC2) from accessing rDNA loci and protects the active chromatin status in nucleolus (By similarity).
Cellular Location	Nucleus, nucleolus. Chromosome

Background

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