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DDX54 antibody - C-terminal region

Rabbit Polyclonal Antibody
Catalog # AI10990

Product Information

Application	WB
Primary Accession	Q8TDD1
Other Accession	NM_024072, NP_076977
Reactivity	Human, Mouse, Rat, Rabbit, Zebrafish, Pig, Dog, Horse, Bovine
Predicted	Rat, Rabbit, Zebrafish, Dog, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	98595

Additional Information

Gene ID	79039
Alias Symbol	DP97, MGC2835
Other Names	ATP-dependent RNA helicase DDX54, 3.6.4.13, ATP-dependent RNA helicase DP97, DEAD box RNA helicase 97 kDa, DEAD box protein 54, DDX54
Format	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
Reconstitution & Storage	Add 50 ul of distilled water. Final anti-DDX54 antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.
Precautions	DDX54 antibody - C-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

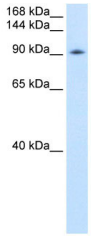
Name	DDX54
Function	Nucleolar RNA helicase that is involved in diverse cellular processes including ribosome biogenesis, DNA damage response, RNA splicing, transcriptional regulation, innate immunity, and nervous system development. Plays an essential role in the formation of the ribosome active site by remodeling rRNA structure and initiating peptidyl transferase center formation (PubMed:38632236). Represses the transcriptional activity of several nuclear receptors. Regulates transcriptome dynamics during DNA damage response. Mechanistically, acts via increased interaction with a well-defined class of pre-mRNAs that contain introns with weak acceptor splice sites, as well as by protein-protein contacts within components of U2

	snRNP and spliceosomal B complex. These activities lead to reduced intron retention and enhanced processing rates of its target transcripts (PubMed:28596291). Acts as an inhibitor of type I interferon antiviral response by facilitating ALKBH5-mediated demethylation of specific transcripts (PubMed:40793791). Contributes to central nervous system myelination, likely through regulation of oligodendrocyte differentiation and myelin sheath formation (By similarity).
Cellular Location	Nucleus, nucleolus. Nucleus, nucleoplasm Note=Relocates from the nucleolus to the nucleoplasm upon viral infection.
Tissue Location	Expressed in the fallopian tube, cervix and uterus. Also expressed in the brain.

References

Rajendran,R.R., (2003) J. Biol. Chem. 278 (7), 4628-4638Reconstitution and Storage:For short term use, store at 2-8C up to 1 week. For long term storage, store at -20C in small aliquots to prevent freeze-thaw cycles.

Images



WB Suggested Anti-DDX54 Antibody Titration: 0.2-1 µg/ml
ELISA Titer: 1:312500
Positive Control: Transfected 293T

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