

Ddx54 antibody - C-terminal region

Rabbit Polyclonal Antibody

Catalog # AI11203

Product Information

Application	WB
Primary Accession	Q8K4L0
Other Accession	NM_028041 , NP_082317
Reactivity	Human, Mouse, Rat, Rabbit, Pig, Dog, Horse, Bovine
Predicted	Mouse, Rabbit, Pig, Dog, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	97748

Additional Information

Gene ID	71990
Alias Symbol	2410015A15Rik, AI414901, DP97
Other Names	ATP-dependent RNA helicase DDX54, 3.6.4.13, 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

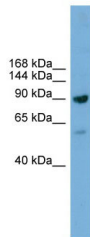
Name	Ddx54
Function	Nucleolar RNA helicase that is involved in diverse cellular processes including ribosome biogenesis, DNA damage response, RNA splicing, transcriptional regulation, innate immunity, and nervous system development. Plays an essential role in the formation of the ribosome active site by remodeling rRNA structure and initiating peptidyl transferase center formation. 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. Acts as an inhibitor of type I interferon antiviral response by facilitating ALKBH5-mediated demethylation of specific transcripts (By similarity). Contributes to central nervous system myelination, likely through regulation of oligodendrocyte differentiation and myelin sheath formation (PubMed:[23239230](#)).

Cellular Location

Nucleus, nucleolus {ECO:0000250|UniProtKB:Q8TDD1}. Nucleus, nucleoplasm {ECO:0000250|UniProtKB:Q8TDD1}. Note=Relocates from the nucleolus to the nucleoplasm upon viral infection. {ECO:0000250|UniProtKB:Q8TDD1}

Images



WB Suggested Anti-Ddx54 Antibody Titration: 0.2-1 µg/ml
Positive Control: SP2/0 cell lysate

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