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DDX54 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a partial recombinant DDX54.
Catalog # AT1739a

Product Information

Application	WB, IHC, IF, E
Primary Accession	Q8TDD1
Other Accession	NM_024072
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG2a Kappa
Clone Names	2H6
Calculated MW	98595

Additional Information

Gene ID	79039
Other Names	ATP-dependent RNA helicase DDX54, ATP-dependent RNA helicase DP97, DEAD box RNA helicase 97 kDa, DEAD box protein 54, DDX54
Target/Specificity	DDX54 (NP_076977, 778 a.a. ~ 881 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000 IHC~~1:100~500 IF~~1:50~200 E~~N/A
Format	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Precautions	DDX54 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

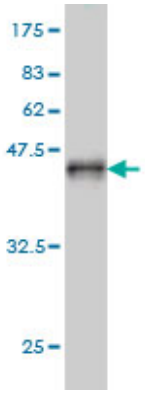
Background

This gene encodes a member of the DEAD box protein family. 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. The nucleolar protein encoded by this gene interacts in a hormone-dependent manner with nuclear receptors, and represses their transcriptional activity. Alternative splice variants that encode different isoforms have been found for this gene.

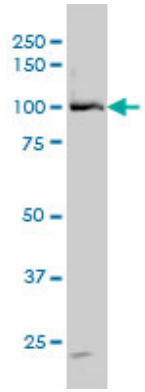
References

Structural basis and specificity of human otubain 1-mediated deubiquitination. Edelmann MJ, et al. Biochem J, 2009 Mar 1. PMID 18954305.Global, in vivo, and site-specific phosphorylation dynamics in signaling networks. Olsen JV, et al. Cell, 2006 Nov 3. PMID 17081983.Rapid identification of 14-3-3-binding proteins by protein microarray analysis. Satoh J, et al. J Neurosci Methods, 2006 Apr 15. PMID 16260042.Nucleolar proteome dynamics. Andersen JS, et al. Nature, 2005 Jan 6. PMID 15635413.The status, quality, and expansion of the NIH full-length cDNA project: the Mammalian Gene Collection (MGC). Gerhard DS, et al. Genome Res, 2004 Oct. PMID 15489334.

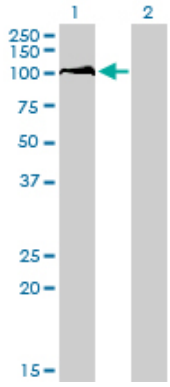
Images



Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (37.18 KDa) .



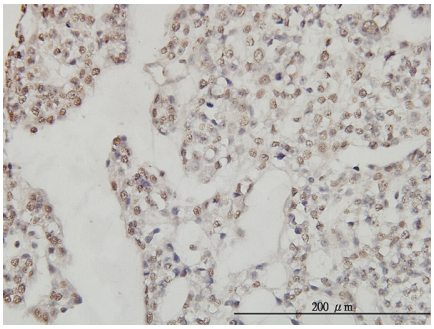
DDX54 monoclonal antibody (M01), clone 2H6 Western Blot analysis of DDX54 expression in HeLa ((Cat # AT1739a)

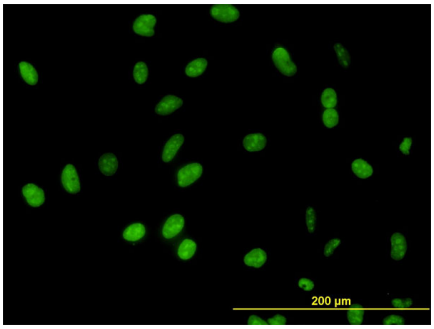


Western Blot analysis of DDX54 expression in transfected 293T cell line by DDX54 monoclonal antibody (M01), clone 2H6.

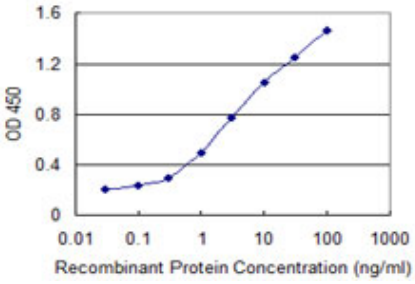
Lane 1: DDX54 transfected lysate(98.6 KDa).
Lane 2: Non-transfected lysate.

Immunoperoxidase of monoclonal antibody to DDX54 on formalin-fixed paraffin-embedded human ovary, clear cell carcinoma. [antibody concentration 3 ug/ml]





Immunofluorescence of monoclonal antibody to DDX54 on HeLa cell. [antibody concentration 10 ug/ml]



Detection limit for recombinant GST tagged DDX54 is 0.03 ng/ml as a capture antibody.