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DDX56 Antibody (monoclonal) (M05)

Mouse monoclonal antibody raised against a partial recombinant DDX56.
Catalog # AT1742a

Product Information

Application	WB, IHC, IF, E
Primary Accession	Q9NY93
Other Accession	NM_019082
Reactivity	Human, Rat
Host	mouse
Clonality	monoclonal
Isotype	IgG2a Kappa
Clone Names	4C5
Calculated MW	61590

Additional Information

Gene ID	54606
Other Names	Probable ATP-dependent RNA helicase DDX56, ATP-dependent 61 kDa nucleolar RNA helicase, DEAD box protein 21, DEAD box protein 56, DDX56, DDX21, NOH61
Target/Specificity	DDX56 (NP_061955, 450 a.a. ~ 547 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	DDX56 Antibody (monoclonal) (M05) is for research use only and not for use in diagnostic or therapeutic procedures.

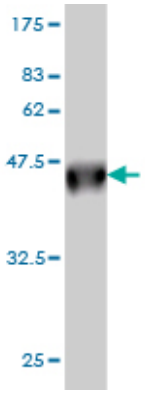
Background

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 protein encoded by this gene shows ATPase activity in the presence of polynucleotides and associates with nucleoplasmic 65S preribosomal particles. This gene may be involved in ribosome synthesis, most likely during assembly of the large 60S ribosomal subunit.

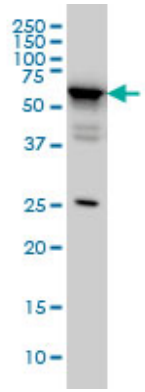
References

Large-scale mapping of human protein-protein interactions by mass spectrometry. Ewing RM, et al. Mol Syst Biol, 2007. PMID 17353931.A human protein-protein interaction network: a resource for annotating the proteome. Stelzl U, et al. Cell, 2005 Sep 23. PMID 16169070.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.A protein interaction framework for human mRNA degradation. Lehner B, et al. Genome Res, 2004 Jul. PMID 15231747.

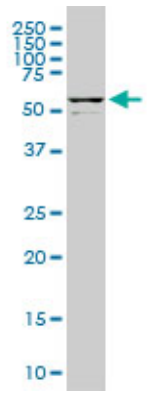
Images



Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (36.52 KDa) .



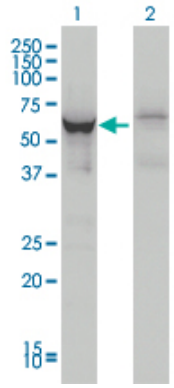
DDX56 monoclonal antibody (M05), clone 4C5 Western Blot analysis of DDX56 expression in HeLa ((Cat # AT1742a)

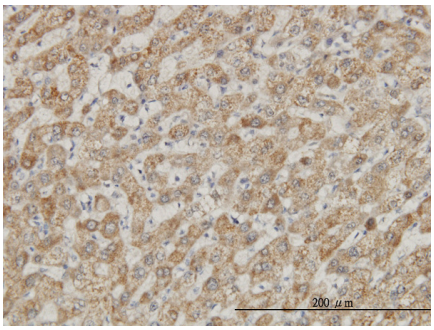


DDX56 monoclonal antibody (M05), clone 4C5. Western Blot analysis of DDX56 expression in PC-12 ((Cat # AT1742a)

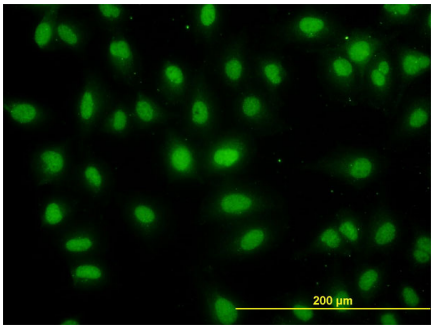
Western Blot analysis of DDX56 expression in transfected 293T cell line by DDX56 monoclonal antibody (M05), clone 4C5.

Lane 1: DDX56 transfected lysate(62 KDa).
Lane 2: Non-transfected lysate.

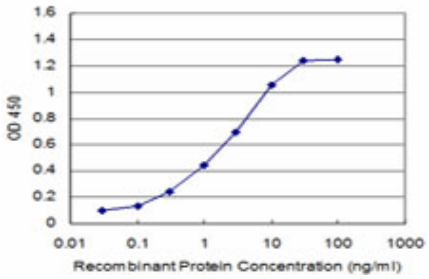




Immunoperoxidase of monoclonal antibody to DDX56 on formalin-fixed paraffin-embedded human liver. [antibody concentration 3 ug/ml]



Immunofluorescence of monoclonal antibody to DDX56 on HeLa cell. [antibody concentration 10 ug/ml]



Detection limit for recombinant GST tagged DDX56 is approximately 0.1ng/ml as a capture antibody.

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