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DDX3Y Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a partial recombinant DDX3Y.
Catalog # AT1735a

Product Information

Application	WB, IHC, E
Primary Accession	O15523
Other Accession	NM_004660
Reactivity	Human, Mouse
Host	mouse
Clonality	monoclonal
Isotype	IgG1 Kappa
Clone Names	2D7
Calculated MW	73154

Additional Information

Gene ID	8653
Other Names	ATP-dependent RNA helicase DDX3Y, DEAD box protein 3, Y-chromosomal, DDX3Y, DBY
Target/Specificity	DDX3Y (NP_004651, 1 a.a. ~ 80 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 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	DDX3Y Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

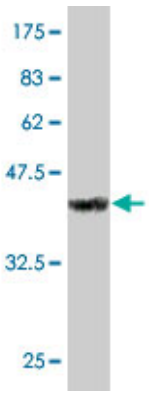
Background

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 has a homolog on the X chromosome. The gene mutation causes male infertility, Sertoli cell-only syndrome or severe hypospermatogenesis, suggesting that this gene plays a key role in the spermatogenic process. Alternatively spliced variants, encoding the same protein, have been identified.

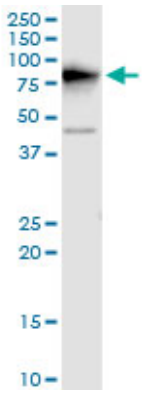
References

DDX3Y encodes a class I MHC-restricted H-Y antigen that is expressed in leukemic stem cells. Rosinski KV, et al. Blood, 2008 May 1. PMID 18299450.Toward a confocal subcellular atlas of the human proteome. Barbe L, et al. Mol Cell Proteomics, 2008 Mar. PMID 18029348.Quantification of DDX3Y, RBMY1, DAZ and TSPY mRNAs in testes of patients with severe impairment of spermatogenesis. Lardone MC, et al. Mol Hum Reprod, 2007 Oct. PMID 17881721.Systematic analysis of the protein interaction network for the human transcription machinery reveals the identity of the 7SK capping enzyme. Jeronimo C, et al. Mol Cell, 2007 Jul 20. PMID 17643375.Yeast two-hybrid identification of prostatic proteins interacting with human sex hormone-binding globulin. Pope SN, et al. J Steroid Biochem Mol Biol, 2005 Feb. PMID 15862967.

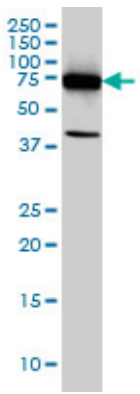
Images



Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (34.54 KDa) .

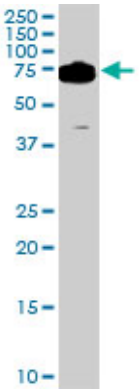


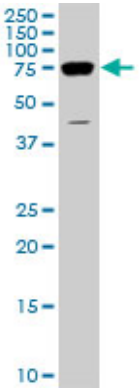
DDX3Y monoclonal antibody (M01), clone 2D7. Western Blot analysis of DDX3Y expression in mouse testis.



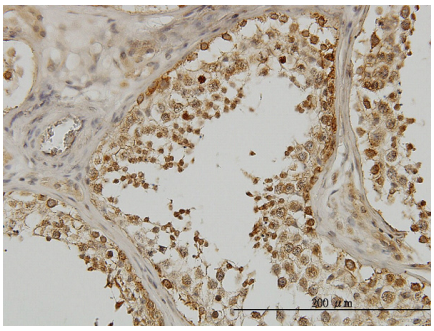
DDX3Y monoclonal antibody (M01), clone 2D7 Western Blot analysis of DDX3Y expression in HeLa ((Cat # AT1735a)

DDX3Y monoclonal antibody (M01), clone 2D7. Western Blot analysis of DDX3Y expression in Raw 264.7 ((Cat # AT1735a)

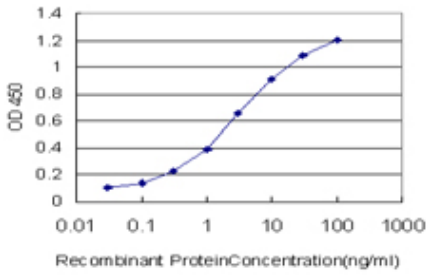




DDX3Y monoclonal antibody (M01), clone 2D7. Western Blot analysis of DDX3Y expression in NIH/3T3 ((Cat # AT1735a)



Immunoperoxidase of monoclonal antibody to DDX3Y on formalin-fixed paraffin-embedded human testis. [antibody concentration 3 ug/ml]



Detection limit for recombinant GST tagged DDX3Y 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'.