

DDX3Y Antibody (monoclonal) (M01)**Mouse monoclonal antibody raised against a partial recombinant DDX3Y.****Catalog # AT1735a****Specification**

DDX3Y Antibody (monoclonal) (M01) - Product Information

Application	WB, IHC
Primary Accession	O15523
Other Accession	NM_004660
Reactivity	Human, Mouse
Host	mouse
Clonality	Monoclonal
Isotype	IgG1 Kappa
Calculated MW	73154

DDX3Y Antibody (monoclonal) (M01) - 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

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.

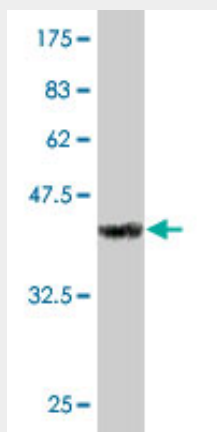
DDX3Y Antibody (monoclonal) (M01) - Protocols

Provided below are standard protocols that you may find useful for product applications.

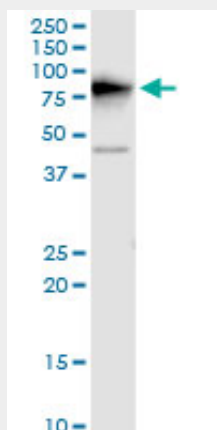
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)

- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

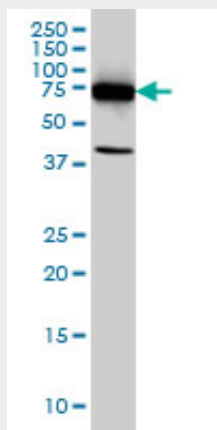
DDX3Y Antibody (monoclonal) (M01) - Images



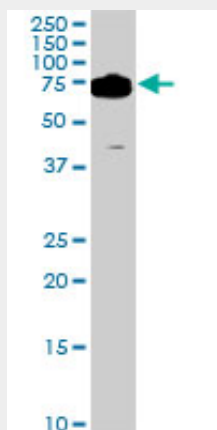
Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (34.54 KDa) .



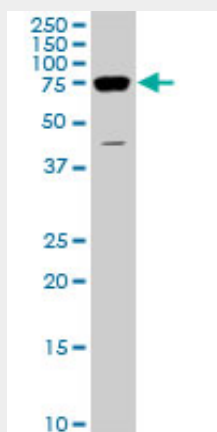
DDX3Y monoclonal antibody (M01), clone 2D7. Western Blot analysis of DDX3Y expression in mouse testis.



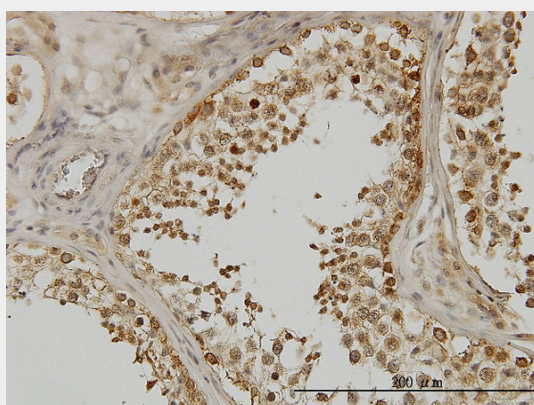
DDX3Y monoclonal antibody (M01), clone 2D7 Western Blot analysis of DDX3Y expression in HeLa (Cat # AT1735a)



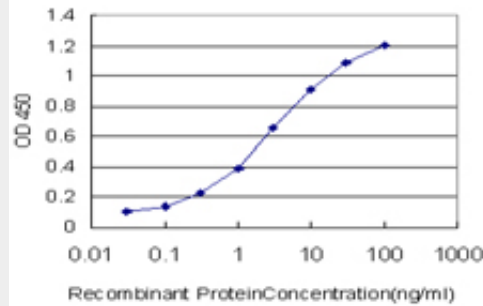
DDX3Y monoclonal antibody (M01), clone 2D7. Western Blot analysis of DDX3Y expression in Raw 264.7 (Cat # AT1735a)



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.

DDX3Y Antibody (monoclonal) (M01) - 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.

DDX3Y Antibody (monoclonal) (M01) - 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.