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DDX3Y Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP12787a

Product Information

Application	WB, E
Primary Accession	O15523
Other Accession	NP_001116137.1, NP_004651.2
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB31325
Calculated MW	73154
Antigen Region	90-119

Additional Information

Gene ID	8653
Other Names	ATP-dependent RNA helicase DDX3Y, DEAD box protein 3, Y-chromosomal, DDX3Y, DBY
Target/Specificity	This DDX3Y antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 90-119 amino acids from the N-terminal region of human DDX3Y.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	DDX3Y Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	DDX3Y
Function	Probable ATP-dependent RNA helicase. During immune response, may enhance IFNB1 expression via IRF3/IRF7 pathway (By similarity).

Cellular Location	Cytoplasm. Nucleus Note=Shuttles between the nucleus and the cytoplasm in an XPO1- dependent manner
Tissue Location	Widely expressed at the mRNA level, with highest levels in testis (PubMed:9381176). Testis-specific (at protein level) Expressed predominantly in spermatogonia, but occasionally detected in some pre-leptotene/leptotene spermatocytes (PubMed:15294876)

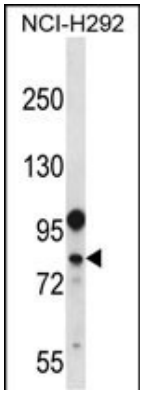
Background

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

Rosinski, K.V., et al. Blood 111(9):4817-4826(2008)
Lardone, M.C., et al. Mol. Hum. Reprod. 13(10):705-712(2007)
Pope, S.N., et al. J. Steroid Biochem. Mol. Biol. 94 (1-3), 203-208 (2005) :
Rush, J., et al. Nat. Biotechnol. 23(1):94-101(2005)
Ficarro, S.B., et al. Rapid Commun. Mass Spectrom. 19(1):57-71(2005)

Images



DDX3Y Antibody (N-term) (Cat. #AP12787a) western blot analysis in NCI-H292 cell line lysates (35ug/lane).This demonstrates the DDX3Y antibody detected the DDX3Y protein (arrow).