Recombinant Full Length Human DDX3Y Protein, GST-tagged

Cat. No. DDX3Y-2587HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human DDX3Y full-length ORF (NP_004651.2, 1 a.a. - 660 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	660 amino acids
Description	The protein encoded by this gene is a member of the DEAD-box RNA helicase family, characterized by nine conserved motifs, included the conserved Asp-Glu-Ala-Asp (DEAD) motif. These motifs are thought to be involved in ATP binding, hydrolysis, RNA binding, and in the formation of intramolecular interactions. This protein shares high similarity to DDX3X, on the X chromosome, but a deletion of this gene is not complemented by DDX3X. Mutations in this gene result in male infertility, a reduction in germ cell numbers, and can result in Sertoli-cell only sydrome. Pseudogenes sharing similarity to both this gene and the DDX3X paralog are found on chromosome 4 and the X chromosome. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Oct 2014]
Molecular Mass	99.6 kDa
AA Sequence	MSHVVVKNDPELDQQLANLDLNSEKQSGGASTASKGRYIPPHLRNREASKGFHDK DSSGWSCSKDKDAYSSFGSRDSRGKPGYFSERGSGSRGRFDDRGRSDYDGIGNR ERPGFGRFERSGHSRWCDKSVEDDWSKPLPPSERLEQELFSGGNTGINFEKYDDI

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	PVEATGSNCPPHIENFSDIDMGEIIMGNIELTRYTRPTPVQKHAIPIIKGKRDLMACAQ TGSGKTAAFLLPILSQIYTDGPGEALKAVKENGRYGRRKQYPISLVLAPTRELAVQIY EEARKFSYRSRVRPCVVYGGADIGQQIRDLERGCHLLVATPGRLVDMMERGKIGLD FCKYLVLDEADRMLDMGFEPQIRRIVEQDTMPPKGVRHTMMFSATFPKEIQMLARD FLDEYIFLAVGRVGSTSENITQKVVWVEDLDKRSFLLDILGATGSDSLTLVFVETKKG ADSLEDFLYHEGYACTSIHGDRSQRDREEALHQFRSGKSPILVATAVAARGLDISNV RHVINFDLPSDIEEYVHRIGRTGRVGNLGLATSFFNEKNMNITKDLLDLLVEAKQEVP SWLENMAYEHHYKGGSRGRSKSNRFSGGFGARDYRQSSGSSSSGFGASRGSSS RSGGGGYGNSRGFGGGGYGGFYNSDGYGGNYNSQGVDWWGN
Applications	Enzyme-linked Immunoabsorbent Assay Western Blot (Recombinant protein) Antibody Production Protein Array
Notes	Best use within three months from the date of receipt of this protein.
Storage	Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name	DDX3Y DEAD (Asp-Glu-Ala-Asp) box polypeptide 3, Y-linked [Homo sapiens]
Official Symbol	DDX3Y
Synonyms	DDX3Y; DEAD (Asp-Glu-Ala-Asp) box polypeptide 3, Y-linked; DBY, DEAD/H (Asp Glu Ala Asp/His) box polypeptide, Y chromosome; ATP-dependent RNA helicase DDX3Y; DEAD box protein 3, Y-chromosomal; DEAD/H (Asp-Glu-Ala-Asp/His) box polypeptide, Y chromosome; DBY;

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Gene ID	8653
mRNA Refseq	NM_001122665
Protein Refseq	NP_001116137
MIM	400010
UniProt ID	O15523

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