

Recombinant Human DDX1

Cat. No. DDX1-26545TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human DDX1 with N-terminal proprietary tag. Predicted MW 107.14kDa.
Species	Human
Source	Wheat Germ
ProteinLength	740 amino acids
Description	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 of unknown function. It shows high transcription levels in 2 retinoblastoma cell lines and in tissues of neuroectodermal origin.
Molecular Weight	107.140kDa inclusive of tags
Tissue specificity	Highest levels of transcription in 2 retinoblastoma cell lines and in tissues of neuroectodermal origin including the retina, brain, and spinal cord.
Form	Liquid

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Purity	Proprietary Purification
Storage buffer	pH: 8.00 Constituents: 0.3% Glutathione, 0.79% Tris HCl
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	MAAFSEMGVMPEIAQAVEEMDWLLPTDIQAESIPILILGGG DVLMAAETGSGKTGAF SIPVIQIVYETLKDQQEGKKGKTT IKTGASVLNWKQMNPYDRGSAFAIGSDGLCCQS REVKEWH GCRATKGLMKGKHYYEVSCHDQGLCRVGWSTMQASLDLGT DKFGFG FGGTGKKSHNKQFDNYGEEFTMHDITIGCYLDIDK GHVKFSKNGKDLGLAFEIPPHM KNQALFPACVLKNAELKF NFGEEEFKFPKDG FVALSKAPDGYIVKSQHSGNAQVT QT KFLPNAPKALIVEPSRELAEQTLNNIKQFKKYIDNPKLRE LLIIGGVAARDQLSVLE NGVDIVVGTPGRLDDLVTGKLN LSQVRFLVLDEADGLLSQGYSDFINRMHNQIPQ VTSDGKR LQVIVCSATLHSFDVKKLSEKIMHFPTWVDLKGEDSVPDT VHHVVVPVN PKTDRLWERLGKSHIRTD DVHAKDNTRPGAN SPEMWSEAIKILKGEYAVRAIKEHK MDQAIIFCRTKIDCD NLEQYFIQQGGGPDKKGHQFSCVCLHGDRK PHERKQNLER FKKGDVRFICTDVAARGIDIHGVPYVINVTLPDEKQNYV HRIGRVGRAERMGLAISL VATEKEKVWYHVCSSRGKGCYN TRLKEDGGCTIWYNEMQLLSEIEEHLNCTISQVE PDIKVP VDEFDGKVTYGQKRAAGGGSYKGHVDILAPTQELAALEK EAQTSFLHLG YLPNQLFRTE
Sequence Similarities	Belongs to the DEAD box helicase family. DDX1 subfamily. Contains 1 B30.2/SPRY domain. Contains 1 helicase ATP-binding domain. Contains 1 helicase C-terminal domain.

GENE INFORMATION

Gene Name	DDX1 DEAD (Asp-Glu-Ala-Asp) box polypeptide 1 [Homo sapiens]
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Official Symbol	DDX1
Synonyms	DDX1; DEAD (Asp-Glu-Ala-Asp) box polypeptide 1; DEAD/H (Asp Glu Ala Asp/His) box polypeptide 1; ATP-dependent RNA helicase DDX1; DBP RB;
Gene ID	1653
mRNA Refseq	NM_004939
Protein Refseq	NP_004930
MIM	601257
Uniprot ID	Q92499
Chromosome Location	2p24
Pathway	mRNA processing, organism-specific biosystem;
Function	ATP binding; ATP-dependent helicase activity; DNA binding; DNA/RNA helicase activity; RNA binding;

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