

Recombinant Human DDX11, GST-tagged

Cat. No. DDX11-28322TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human DDX11(40 a.a. - 129 a.a.), fused with GST-tag at N-terminal, was expressed in wheat germ.
Species	Human
Source	Wheat Germ
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, which is an enzyme that possesses both ATPase and DNA helicase activities. This gene is a homolog of the yeast CHL1 gene, and may function to maintain chromosome transmission fidelity and genome stability. Alternative splicing results in multiple transcript variants encoding distinct isoforms.
Molecular Mass	35.64 kDa
AA Sequence	GIFESPTGTGKSLSLICGALSWLRDFEQKKREEEARLLETGTGPLHDEKDESLCLSS SCEGAAGTPRPAGEPAWV TQFVQKKEERDLVDR
Applications	ELISA; WB-Re; AP; Array

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Storage	Store at -80°C. 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	DDX11 DEAD/H (Asp-Glu-Ala-Asp/His) box helicase 11 [Homo sapiens (human)]
Official Symbol	DDX11
Synonyms	DDX11; CHL1; KRG2; WABS; CHLR1; DEAD/H (Asp-Glu-Ala-Asp/His) box helicase 11; probable ATP-dependent RNA helicase DDX11; KRG-2; hCHLR1; DEAD/H box protein 11; CHL1-related protein 1; CHL1-like helicase homolog; CHL1-related helicase gene-1; keratinocyte growth factor-regulated gene 2 protein; DEAD/H (Asp-Glu-Ala-Asp/His) box polypeptide 11 (CHL1-like helicase homolog, S. cerevisiae); NP_001244073.1; EC 3.6.4.13; NP_001244074.1; NP_004390.3; NP_085911.2; NP_689651.1
Gene ID	1663
mRNA Refseq	NM_001257144
Protein Refseq	NP_001244073
MIM	601150
UniProt ID	Q96FC9
Chromosome Location	12p11

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Pathway	Activation of Chaperone Genes by XBP1(S); Activation of Chaperones by IRE1alpha; Metabolism of proteins
Function	4 iron, 4 sulfur cluster binding; ATP-dependent DNA helicase activity; DNA helicase activity

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