

Datasheet for ABIN7564756
EXD2 Protein (AA 1-650) (His tag)



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Overview

Quantity:	1 mg
Target:	EXD2
Protein Characteristics:	AA 1-650
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This EXD2 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant Exd2 Protein expressed in mammalian cells.
Sequence:	<p>MSRQNLVALT VTLLGVAMG GFVLWKGQR RWSKTSRVMQ QQPQQPQQPQ QPQPQPQPQPQ</p> <p>QPQPEHPQPQ QQVPGGREWP PPEDDQLPFG ALRAPRASWE ERILQAEVVT VSQEAewnqi</p> <p>QPFLKRELED FVLGIDCEW VNLEGKASPL SLLQMASPSG FCALVRLPRL IYGGRTLPR</p> <p>LLDILADGAI LKVGVGCSed ANKLLQDYGL IVRGCLDLRY LAMKQGNNIL CNGLSLKSLA</p> <p>ETILNFPLDK SLLLRCSNWD AENLTEDQVT YAARDAQISV ALFLHLLGYP FSRDSYEEES</p> <p>TDQINWQKAL ERCRNMVDIP FRSKGLGRLV EEVNGEALes QLKPRNRKAK TDRMVPGNnQ</p> <p>GRDPRKHKRK PLGVGYSARK SPLYDNCFLQ APDGQPLCTC DRRKAQWYLD KGIGELVSKE</p> <p>PFVVRLQFEP AGRPESPGDY YLMVKENLCV VCGKTDYIR KNIIPHEYRK HFPIEMKDHN</p> <p>SHDVLLlCTS CHAISNYyDN HLKQQLAKEF QAPIGSEEGl RLLEDLERRQ VRSGARALLN</p> <p>AESLPAHRKE ELLHALREFY NTDIITEEmL HEAASLETRI YNESYIPHGL KVVQRHTEGG</p> <p>LRSLMQLESr WRQHFLDSMQ PKHLPQQWSV DHNHQKLLRK YGDDLPIKLS Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a</p>

different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.

Specificity:	If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.
Characteristics:	<p>Key Benefits:</p> <ul style="list-style-type: none">• Made to order protein - from design to production - by highly experienced protein experts.• Protein expressed in mammalian cells and purified in one-step affinity chromatography• The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.• State-of-the-art algorithm used for plasmid design (Gene synthesis). <p>This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.</p> <p>If you are not interested in a full length protein, please contact us for individual protein fragments.</p> <p>The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.</p>
Purity:	> 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)
Grade:	custom-made

Target Details

Target:	EXD2
Alternative Name:	Exd2 (EXD2 Products)
Background:	Exonuclease 3'-5' domain-containing protein 2 (EC 3.1.11.1) (3'-5' exoribonuclease EXD2) (EC 3.1.13.-) (Exonuclease 3'-5' domain-like-containing protein 2),FUNCTION: Exonuclease that has both 3'-5' exoribonuclease and exodeoxyribonuclease activities, depending on the divalent metal cation used as cofactor. In presence of Mg(2+), only shows 3'-5' exoribonuclease activity, while it shows both exoribonuclease and exodeoxyribonuclease activities in presence of Mn(2+). Acts as an exoribonuclease in mitochondrion, possibly by regulating ATP production and mitochondrial translation. Also involved in the response to DNA damage. Acts as 3'-5' exodeoxyribonuclease for double-strand breaks resection and efficient homologous recombination. Plays a key role in controlling the initial steps of chromosomal break repair, it is

Target Details

recruited to chromatin in a damage-dependent manner and functionally interacts with the MRN complex to accelerate resection through its 3'-5' exonuclease activity, which efficiently processes double-stranded DNA substrates containing nicks. Also involved in response to replicative stress: recruited to stalled forks and is required to stabilize and restart stalled replication forks by restraining excessive fork regression, thereby suppressing their degradation. {ECO:0000250|UniProtKB:Q9NVH0}.

Molecular Weight: 74.3 kDa

UniProt: [Q8VEG4](#)

Application Details

Application Notes: We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: The buffer composition is at the discretion of the manufacturer.

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: 12 months