Datasheet for ABIN7555113

RAD51D Protein (AA 1-328) (His tag)

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Overview

Quantity:	1 mg
Target:	RAD51D
Protein Characteristics:	AA 1-328
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This RAD51D protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Purpose:	Custom-made recombinat RAD51D Protein expressed in mammalien cells.
Sequence:	MGVLRVGLCP GLTEEMIQLL RSHRIKTVVD LVSADLEEVA QKCGLSYKAL VALRRVLLAQ FSAFPVNGAD LYEELKTSTA ILSTGIGSLD KLLDAGLYTG EVTEIVGGPG SGKTQVCLCM AANVAHGLQQ NVLYVDSNGG LTASRLLQLL QAKTQDEEEQ AEALRRIQVV HAFDIFQMLD VLQELRGTVA QQVTGSSGTV KVVVVDSVTA VVSPLLGGQQ REGLALMMQL ARELKTLARD LGMAVVVTNH ITRDRDSGRL KPALGRSWSF VPSTRILLDT IEGAGASGGR RMACLAKSSR QPTGFQEMVD IGTWGTSEQS ATLQGDQT **Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.**
Characteristics:	Key Benefits:

Product Details

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalien 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).

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.

If you are not interested in a full length protein, please contact us for individual protein fragments.

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.

Purity:	> 90 % as determined by Bis-Tris Page, Western Blot
Grade:	custom-made

Target Details

Target:	RAD51D
Alternative Name:	RAD51D (RAD51D Products)
Background:	DNA repair protein RAD51 homolog 4 (R51H3) (RAD51 homolog D) (RAD51-like protein 3) (TRAD),FUNCTION: Involved in the homologous recombination repair (HRR) pathway of double-stranded DNA breaks arising during DNA replication or induced by DNA-damaging agents. Bind to single-stranded DNA (ssDNA) and has DNA-dependent ATPase activity. Part of the RAD51 paralog protein complex BCDX2 which acts in the BRCA1-BRCA2-dependent HR pathway. Upon DNA damage, BCDX2 acts downstream of BRCA2 recruitment and upstream of RAD51 recruitment. BCDX2 binds predominantly to the intersection of the four duplex arms of the Holliday junction and to junction of replication forks. The BCDX2 complex was originally reported to bind single-stranded DNA, single-stranded gaps in duplex DNA and specifically to nicks in duplex DNA. Involved in telomere maintenance. The BCDX2 subcomplex XRCC2:RAD51D can stimulate Holliday junction resolution by BLM. {ECO:0000269|PubMed:10871607, ECO:0000269|PubMed:11751635, ECO:0000269|PubMed:11834724, ECO:0000269|PubMed:11842113, ECO:0000269|PubMed:12975363, ECO:0000269|PubMed:15109494,

Target Details

	ECO:0000269|PubMed:23149936}.
Molecular Weight:	35.0 kDa
UniProt:	O75771

Application Details

Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies as well. 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

