

Datasheet for ABIN7553904
FANCD2 Protein (AA 1-1451) (His tag)



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Overview

Quantity:	1 mg
Target:	FANCD2
Protein Characteristics:	AA 1-1451
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This FANCD2 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Purpose:	Custom-made recombinat FANCD2 Protein expressed in mammalian cells.
Sequence:	MVSKRRLSKS EDKESLTEDA SKTRKQPLSK KTKKSHIANE VEENDSIFVK LLKISGIILK TGESQNQLAV DQIAFQKKLF QTLRRHPSYP KIIIEFVSGL ESYIEDEDSF RNCLLSCERL QDEEASMGAS YSKSLIKLLL GIDILQPAII KTLFEKLPEY FFENKNSDEI NIPRLIVSQL KWLDRVVDGK DLTTKIMQLI SIAPENLQHD IITSLPEILG DSQHADV GKE LSDLLIENTS LTPILDVLS SLRLDPN FLL KVRQLVMDKL SSIRLEDLPV IIKFILHSVT AMDTLEWISE LREKLDLQHC VLPSRLQASQ VKLKS KGRAS SSGNQESSGQ SCIILLFDVI KSAIRYEKTI SEAWIKAIEN TASVSEHKVF DLVMLFIIYS TNTQT KKYID RVL RNKIRSG CIQEQLLQST FSVHYLV LKD MCSSILSLAQ SLLHSLDQSI ISFGSLLYKY AFKFFD TYCQ QEVGALVTH ICSGNEAEVD TALDV LLELV VLNPSAMMMN AVFVK GILDY LDNISPPQIR KLFYVLSTLA FSKQNEASSH IQDDMHLVIR KQLSSTVFKY KLIGI GAVT MAGIMAADRS ESPSLTQERA NLSDEQCTQV TSL LQLVHSC SEQSPQASAL YYDEFANLIQ HEKLDPKALE WVGHTICNDF

QDAFVVDSCV VPEGDFPPV KALYGLEEYD TQDGIANLL PLLFSQDFAK DGGPVTSQES
GQKLVSPCL APYFRLRLC VERQHNGNLE EIDGLDCPI FLTDLEPGEK LESMSAKERS
FMCSLIFLTL NWFREIVNAF CQETSPEMKG KVLTRLKHIV ELQIILEKYL AVTPDYVPPL
GNFDVETLDI TPHTVTAISA KIRKKGKIER KQKTDGSKTS SSDLSEEKN SECPTPSHR
GQLNKEFTGK EEKTSLLLHN SHAFFRELDI EVFSILHCGL VTKFILDTEM HTEATEVVQL
GPPELLFLE DLSQKLESML TPPIARRVPF LKNKGSRNIG FSHLQQRSAQ EIVHCVFQLL
TPMCNHLENI HNYFQCLAAE NHGVVDGPGV KVQEYHIMSS CYQRLQIFH GLFAWSGFSQ
PENQNLLYSA LHVLSRLKQ GEHSQPLEEL LSQSVHYLQN FHQSIPSFQC ALYLIRLLMV
ILEKSTASQA NKEKIASLAR QFLCRVWPSG DKEKSNISND QLHALLCIYL EHTESILKAI
EEIAGVGVPE LINSKPDASS STFPTLRHT FVFFRVMMA ELEKTVKKIE PGTAADSQI
HEEKLLYWNM AVRDFSILIN LIKVFDSHPV LHVCLKYGRL FVEAFLKQCM PLLDFSFRKH
REDVLSLLET FQLDTRLLHH LCGHSKIHQD TRLTQHVPLL KKTLELLVCR VKAMLTNNC
REAFWLGNLK NRDLQGEEIK SQNSQESTAD ESEDDMSSQA SKSKATEDGE EDEVSAGEKE
QDSDESYDDS D **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:

- 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).

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:	FANCD2
Alternative Name:	FANCD2 (FANCD2 Products)
Background:	<p>Fanconi anemia group D2 protein (Protein FANCD2),FUNCTION: Required for maintenance of chromosomal stability. Promotes accurate and efficient pairing of homologs during meiosis. Involved in the repair of DNA double-strand breaks, both by homologous recombination and single-strand annealing. May participate in S phase and G2 phase checkpoint activation upon DNA damage. Plays a role in preventing breakage and loss of missegregating chromatin at the end of cell division, particularly after replication stress. Required for the targeting, or stabilization, of BLM to non-centromeric abnormal structures induced by replicative stress. Promotes BRCA2/FANCD1 loading onto damaged chromatin. May also be involved in B-cell immunoglobulin isotype switching. {ECO:0000269 PubMed:11239453, ECO:0000269 PubMed:11239454, ECO:0000269 PubMed:12086603, ECO:0000269 PubMed:12239151, ECO:0000269 PubMed:14517836, ECO:0000269 PubMed:15115758, ECO:0000269 PubMed:15314022, ECO:0000269 PubMed:15377654, ECO:0000269 PubMed:15454491, ECO:0000269 PubMed:15650050, ECO:0000269 PubMed:15661754, ECO:0000269 PubMed:15671039, ECO:0000269 PubMed:19465921, ECO:0000269 PubMed:30335751}.</p>
Molecular Weight:	164.1 kDa
UniProt:	Q9BXW9
Pathways:	DNA Damage Repair

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.

Handling

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: 12 months