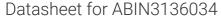
# antibodies .- online.com





## FANCD2 Protein (AA 1-1450) (His tag)



**Image** 



Go to Product page

#### Overview

Quantity:	1 mg
Target:	FANCD2
Protein Characteristics:	AA 1-1450
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This FANCD2 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), Crystallization (Crys), ELISA

#### **Product Details**

Sequence:

MISKRRRLDS EDKENLTEDA SKTMPLSKLA KKSHNSHEVE ENGSVFVKLL KASGLTLKTG
ENQNQLGVDQ VIFQRKLFQA LRKHPAYPKV IEEFVNGLES YTEDSESLRN CLLSCERLQD
EEASMGTFYS KSLIKLLLGI DILQPAIIKM LFEKVPQFLF ESENRDGINM ARLIINQLKW
LDRIVDGKDL TAQMMQLISV APVNLQHDFI TSLPEILGDS QHANVGKELG ELLVQNTSLT
VPILDVFSSL RLDPNFLSKI RQLVMGKLSS VRLEDFPVIV KFLLHSVTDT TSLEVIAELR
ENLNVQQFIL PSRIQASQSK LKSKGLASSS GNQENSDKDC IVLVFDVIKS AIRYEKTISE
AWFKAIERIE SAAEHKALDV VMLLIIYSTS TQTKKGVEKL LRNKIQSDCI QEQLLDSAFS
THYLVLKDIC PSILLLAQTL FHSQDQRIIL FGSLLYKYAF KFFDTYCQQE VVGALVTHVC
SGTEAEVDTA LDVLLELIVL NASAMRLNAA FVKGILDYLE NMSPQQIRKI FCILSTLAFS
QQPGTSNHIQ DDMHLVIRKQ LSSTVFKYKL IGIIGAVTMA GIMAEDRSVP SNSSQRSANV
SSEQRTQVTS LLQLVHSCTE HSPWASSLYY DEFANLIQER KLAPKTLEWV GQTIFNDFQD
AFVVDFCAAP EGDFPFPVKA LYGLEEYSTQ DGIVINLLPL FYQECAKDAS RATSQESSQR

SMSSLCLASH FRLLRLCVAR QHDGNLDEID GLLDCPLFLP DLEPGEKLES MSAKDRSLMC
SLTFLTFNWF REVVNAFCQQ TSPEMKGKVL SRLKDLVELQ GILEKYLAVI PDYVPPFASV
DLDTLDMMPR SSSAVAAKNR NKGKTGGKKQ KADSNKASCS DTLLTEDTSE CDMAPSGRSH
VDKESTGKEG KTFVSLQNYR AFFRELDIEV FSILHSGLVT KFILDTEMHT EATEVVQLGP
AELLFLLEDL SQKLENMLTA PFAKRICCFK NKGRQNIGFS HLHQRSVQDI VHCVVQLLTP
MCNHLENIHN FFQCLGAEHL SADDKARATA QEQHTMACCY QKLLQVLHAL FAWKGFTHQS
KHRLLHSALE VLSNRLKQME QDQPLEELVS QSFSYLQNFH HSVPSFQCGL YLLRLLMALL
EKSAVPNQKK EKLASLAKQL LCRAWPHGEK EKNPTFNDHL HDVLYIYLEH TDNVLKAIEE
ITGVGVPELV SAPKDAASST FPTLTRHTFV IFFRVMMAEL EKTVKGLQAG TAADSQQVHE
EKLLYWNMAV RDFSILLNLM KVFDSYPVLH VCLKYGRRFV EAFLKQCMPL LDFSFRKHRE
DVLSLLQTLQ LNTRLLHHLC GHSKIRQDTR LTKHVPLLKK SLELLVCRVK AMLVLNNCRE
AFWLGTLKNR DLQGEEIISQ DPSSSESNAE DSEDGVTSHV SRNRATEDGE DEASDEQKDQ
DSDESDDSSS

Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a special request, please contact us.

#### Characteristics:

- Made in Germany from design to production by highly experienced protein experts.
- Mouse Fancd2 Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade.
- 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 will ensure that you receive a correctly folded protein.

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.

In the unlikely event that the protein cannot be expressed or purified we do not charge anything (other companies might charge you for any performed steps in the expression process for custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression experiments or purification optimization).

When you order this made-to-order protein you will only pay upon receival of the correctly folded protein. With no financial risk on your end you can rest assured that our experienced protein experts will do everything to make sure that you receive the protein you ordered. The concentration of our recombinant proteins is measured using the absorbance at 280nm. The protein's absorbance will be measured in several dilutions and is measured against its specific reference buffer.

The concentration of the protein is calculated using its specific absorption coefficient. We use

### **Product Details**

	the Expasy's protparam tool to determine the absorption coefficient of each protein.
Purification:	Two step purification of proteins expressed in baculovirus infected SF9 insect cells:
	<ol> <li>In a first purification step, the protein is purified from the cleared cell lysate using three different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. Eluate fractions are analyzed by SDS-PAGE.</li> </ol>
	<ol><li>Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.</li></ol>
Purity:	>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Sterility:	0.22 μm filtered
Endotoxin Level:	Protein is endotoxin free.
Grade:	Crystallography grade
Target Details	
Target:	FANCD2
Alternative Name:	Fancd2 (FANCD2 Products)
Background:	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 (By
	similarity). Promotes BRCA2/FANCD1 loading onto damaged chromatin. May also be involved
	in B-cell immunoglobulin isotype switching. {ECO:0000250, ECO:0000269 PubMed:12893777}.
Molecular Weight:	164.6 kDa Including tag.
UniProt:	Q80V62
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 gurantee
	though.
Comment:	Protein has not been tested for activity yet. In cases in which it is highly likely that the

## **Application Details**

recombinant protein with the default tag will be insoluble our protein lab may sugge	st a higher
molecular weight tag (e.g. GST-tag) instead to increase solubility. We will discuss all	possible
options with you in detail to assure that you receive your protein of interest.	

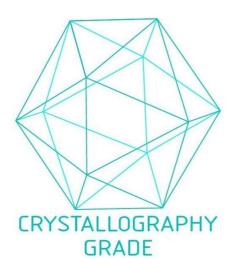
Restrictions:

For Research Use only

# Handling

Format:	Liquid
Buffer:	100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value 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:	Unlimited (if stored properly)

## **Images**



**Image 1.** "Crystallography Grade" protein due to multi-step, protein-specific purification process