

Recombinant Human FANCD2 Protein, His-tagged

Cat. No. FANCD2-1459H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human FANCD2 Protein (Met1-Thr359) with N-His tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Met1-Thr359
Description	The Fanconi anemia complementation group (FANC) currently includes FANCA, FANCB, FANCC, FANCD1 (also called BRCA2), FANCD2, FANCE, FANCF, FANCG, FANCI, FANCI (also called BRIP1), FANCL, FANCM and FANCN (also called PALB2). The previously defined group FANCH is the same as FANCA. Fanconi anemia is a genetically heterogeneous recessive disorder characterized by cytogenetic instability, hypersensitivity to DNA crosslinking agents, increased chromosomal breakage, and defective DNA repair. The members of the Fanconi anemia complementation group do not share sequence similarity; they are related by their assembly into a common nuclear protein complex. This gene encodes the protein for complementation group D2. This protein is monoubiquitinated in response to DNA damage, resulting in its localization to nuclear foci with other proteins (BRCA1 AND BRCA2) involved in homology-directed DNA repair. Alternative splicing results in multiple transcript variants.
Form	Freeze-dried powder

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Molecular Mass	Predicted Molecular Mass: 44.3 kDa Accurate Molecular Mass: 44 kDa
Purity	> 90%
Applications	Positive Control; Immunogen; SDS-PAGE; WB.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	FANCD2 Fanconi anemia, complementation group D2 [Homo sapiens (human)]
Official Symbol	FANCD2
Synonyms	FANCD2; Fanconi anemia, complementation group D2; FACD, FANCD; Fanconi anemia group D2 protein; FA D2; FAD; FA4; FACD; FAD2; FA-D2; FANCD; FLJ23826; DKFZp762A223;

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Gene ID	2177
mRNA Refseq	NM_001018115
Protein Refseq	NP_001018125
MIM	613984
UniProt ID	Q9BXW9

