FANCD2 Antibody – Polyclonal

PRODUCT OVERVIEW

Product Name	FANCD2, Polyclonal Antibody
Full Product Name	FANCD2 (phospho Ser222) Polyclonal Antibody
Product Gene Name	anti-FANCD2 antibody
Clonality	Polyclonal
Molecular Weight	27,501 Da
OMIM	227646
3D Structure	ModBase 3D Structure for Q9BXW9
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for anti-FANCD2 antibody	MBS8520404 is an antibody targeting FANCD2. Also known as FANCD2 (phospho Ser222) Polyclonal Antibody.
Other Notes	Small volumes of anti-FANCD2 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for FANCD2. It may not necessarily be applicable to this product.

NCBI GI #	66528888
NCBI GeneID	2177
NCBI Accession #	NP_001018125.1
UniProt Primary Accession #	Q9BXW9
UniProt Secondary Accession #	Q2LA86; Q69YP9; Q6PJN7; Q9BQ06; Q9H9T9
UniProt Related Accession #	Q9BXW9
GenBank Nucleotide #	NM_001018115.2
NCBI Official Full Name	Fanconi anemia group D2 protein isoform b
NCBI Official Synonym Full Names	FA complementation group D2
NCBI Official Symbol	FANCD2
NCBI Official Synonym Symbols	FA4; FAD; FACD; FAD2; FA-D2; FANCD
UniProt Protein Name	Fanconi anemia group D2 protein
Protein Family	Fanconi anemia group D2 protein
UniProt Gene Name	FANCD2
UniProt Synonym Gene Names	FACD; Protein FACD2
NCBI Protein Information	Fanconi anemia group D2 protein

NCBI Summary for FANCD2	The Fanconi anemia complementation group (FANC) currently includes FANCA, FANCB, FANCC, FANCD1 (also called BRCA2), FANCD2, FANCE, FANCF, FANCG, FANCI, FANCJ (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 monoubiquinated 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. [provided by RefSeq, Feb 2016]
UniProt Comments for FANCD2	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.
Research Articles on FANCD2	**1.** we discuss the recent and relevant studies to provide an updated review on the roles of FANCD2 in the DNA damage response.
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