Datasheet for ABIN3022849

anti-FANCD2 antibody (AA 1-230)

4 Images

Go to Product page

Overview

Quantity:	100 µL
Target:	FANCD2
Binding Specificity:	AA 1-230
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This FANCD2 antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF), Immunoprecipitation (IP)

Product Details

Immunogen:	Recombinant fusion protein containing a sequence corresponding to amino acids 1-230 of human FANCD2 (NP_149075.2).
Sequence:	MVSKRRLSKS EDKESLTEDA SKTRKQPLSK KTKKSHIANE VEENDSIFVK LLKISGIILK TGESQNQLAV DQIAFQKKLF QTLRRHPSYP KIIEEFVSGL ESYIEDEDSF RNCLLSCERL QDEEASMGAS YSKSLIKLLL GIDILQPAII KTLFEKLPEY FFENKNSDEI NIPRLIVSQL KWLDRVVDGK DLTTKIMQLI SIAPENLQHD IITSLPEILG DSQHADVGKE
Isotype:	IgG
Cross-Reactivity:	Human, Rat
Characteristics:	Polyclonal Antibodies
Purification:	Affinity purification

Target Details

Target:	FANCD2
Alternative Name:	FANCD2 (FANCD2 Products)
Background:	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.,FA4,FAD,FACD,FAD2,FA-D2,FANCD,FANCD2,Epigenetics & Nuclear Signaling,DNA Damage & Repair,Cell Biology & Developmental Biology,Cell Cycle,G2/M DNA Damage Checkpoint,FANCD2
Molecular Weight:	27 kDa/140 kDa/164 kDa/166 kDa
Gene ID:	2177
UniProt:	Q9BXW9
Pathways:	DNA Damage Repair

Application Details

Application Notes:	WB,1:500 - 1:2000,IF,1:50 - 1:200,IP,1:50 - 1:200
Restrictions:	For Research Use only

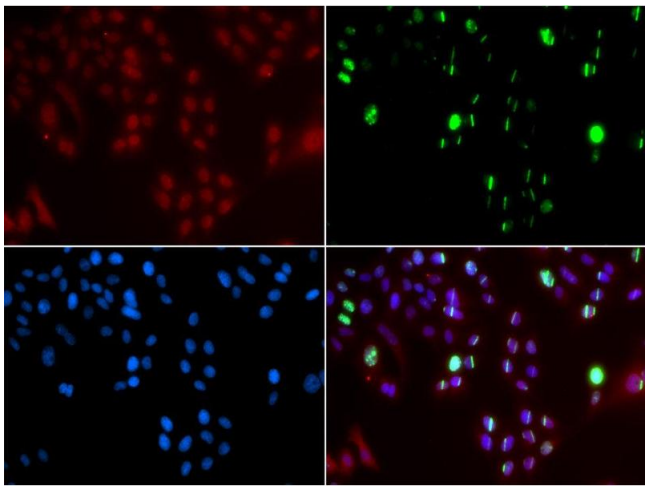
Handling

Format:	Liquid
Buffer:	PBS with 0.02 % sodium azide,50 % glycerol, pH 7.3.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Handling

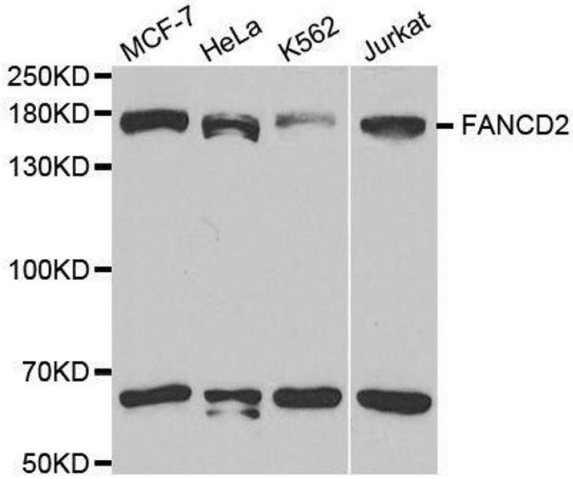
Handling Advice:	Avoid freeze / thaw cycles
Storage:	-20 °C
Storage Comment:	Store at -20°C. Avoid freeze / thaw cycles.

Images



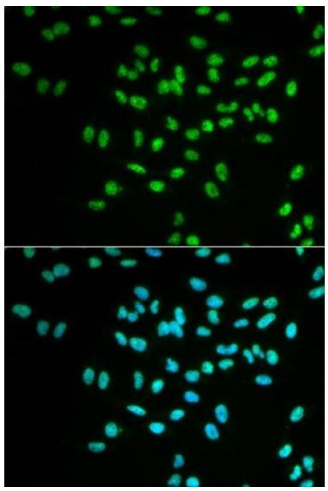
Immunofluorescence

Image 1. Immunofluorescence analysis of GFP-RNF168 transgenic U2OS cell using FANCD2 antibody. Green*: GFP-RNF168 fusion protein expression for DNA damage marker.Blue: DAPI for nuclear staining.RNF168(GFP) can be used to mark cells damaged by UV-A laser for they always gather around DNA damage region.*



Western Blotting

Image 2. Western blot analysis of extracts of various cell lines, using FANCD2 antibody.



Immunofluorescence

Image 3. Immunofluorescence analysis of MCF-7 cells using FANCD2 antibody.

Images

Please check the product details page for more images. Overall 4 images are available for ABIN3022849.