

For Research Use Only

# FANCD2 Recombinant antibody

Catalog Number: 83946-4-RR



## Basic Information

### Catalog Number:

83946-4-RR

### Size:

100ul, Concentration: 1000 µg/ml by Nanodrop;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG29460

### GenBank Accession Number:

NM\_001018115

### GeneID (NCBI):

2177

### UNIPROT ID:

Q9BXW9

### Full Name:

Fanconi anemia, complementation group D2

### Calculated MW:

164 kDa

### Observed MW:

150-160 kDa

### Purification Method:

Protein A purification

### CloneNo.:

241048G8

### Recommended Dilutions:

WB 1:5000-1:50000

IF/ICC 1:400-1:1600

## Applications

### Tested Applications:

WB, IF/ICC, FC (Intra), ELISA

### Species Specificity:

human

### Positive Controls:

WB : HeLa cells, K-562 cells, MCF-7 cells, Jurkat cells, U2OS cells

IF/ICC : HeLa cells,

## Background Information

Amongst the FA genes, Fanconi Anemia Group D2 Protein (FANCD2) is the most evolutionarily conserved gene, demonstrating a high sequence similarity from lower eukaryotes to humans. Upon activation, Fanconi anemia group D2 protein (FANCD2) is monoubiquitinated at K561 and works in cooperation with other FA and non-FA proteins to repair DNA damage. In regards to the FA pathway, monoubiquitinated or activated FANCD2 is often portrayed as the functional representative for the functions of activated FA signaling. (PMID: 28825622)

## Storage

### Storage:

Store at -20°C. Stable for one year after shipment.

### Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol

Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

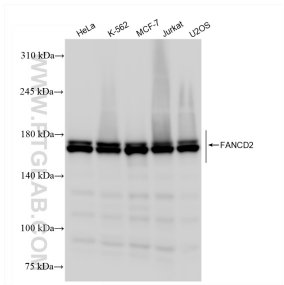
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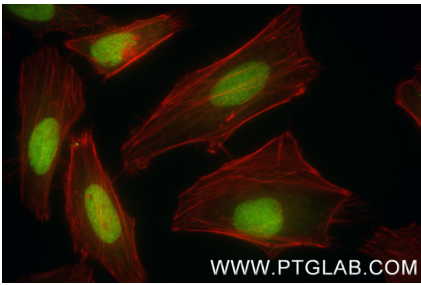
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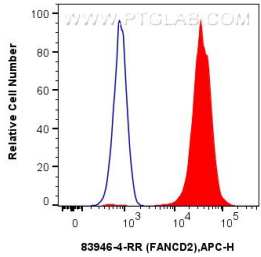
Selected Validation Data



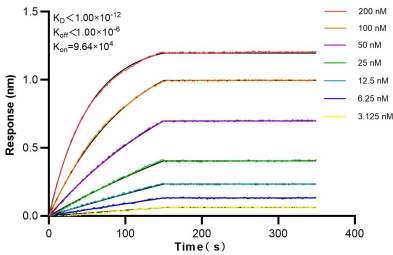
Various lysates were subjected to SDS PAGE followed by western blot with 83946-4-RR (FANCD2 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using FANCD2 antibody (83946-4-RR, Clone: 241048G8) at dilution of 1:800 and CoraLite® 488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin.



1x10<sup>6</sup> HeLa cells were intracellularly stained with 0.25 ug FANCD2 Recombinant antibody (83946-4-RR, Clone:241048G8) and APC-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L)(red), or 0.25 ug Isotype Control (blue). Cells were fixed and permeabilized with True-Nuclear Transcription Factor Buffer Set.



Biolayer interferometry (BLI) kinetic assays of 83946-4-RR against Human FANCD2 were performed. The affinity constant is below 1 pM.