

For Research Use Only

FANCD2 Recombinant antibody

Catalog Number: 83946-4-RR



Basic Information

Catalog Number:

83946-4-RR

Concentration:

1000 μ g/ml

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

For technical support and original validation data for this product please contact:

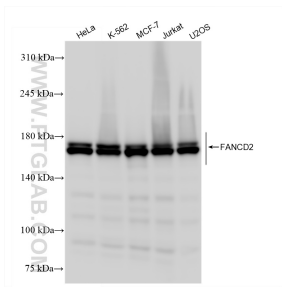
T: 4006900926

E: Proteintech-CN@ptglab.com

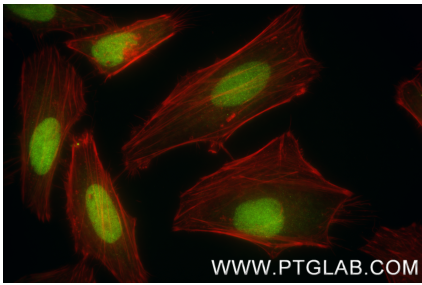
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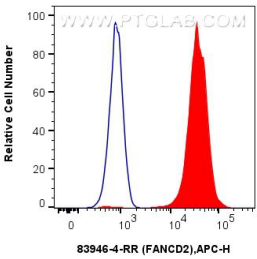
Selected Validation Data



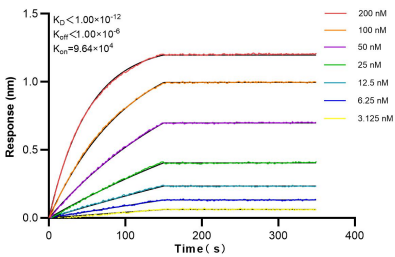
Various lysates were subjected to SDS PAGE followed by western blot with 83946-4-RR (FANCD2 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



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.



1x10⁶ 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.