

For Research Use Only

FANCD2 Recombinant antibody, PBS Only

Catalog Number: 83946-4-PBS



Basic Information

Catalog Number: 83946-4-PBS	GenBank Accession Number: NM_001018115	Purification Method: Protein A purification
Size: 100ug , Concentration: 1 mg/ml by Nanodrop;	GeneID (NCBI): 2177	CloneNo.: 241048G8
Source: Rabbit	UNIPROT ID: Q9BXW9	
Isotype: IgG	Full Name: Fanconi anemia, complementation group D2	
Immunogen Catalog Number: AG29460	Calculated MW: 164 kDa	
	Observed MW: 150-160 kDa	

Applications

Tested Applications:
WB, IF/ICC, FC (Intra), ELISA

Species Specificity:
human

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

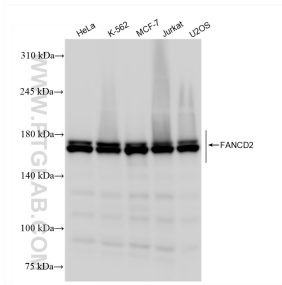
Storage:
Store at -80°C.

Storage Buffer:
PBS only

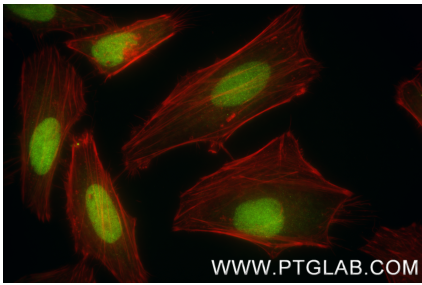
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
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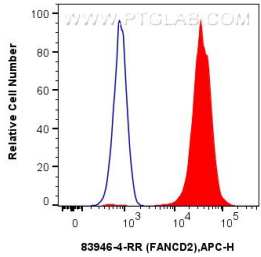
Selected Validation Data



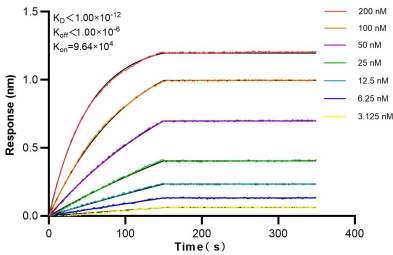
Various lysates were subjected to SDS PAGE followed by western blot with 83946-4-RR (FANCD2 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 83946-4-PBS in a different storage buffer formulation.



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. This data was developed using the same antibody clone with 83946-4-PBS in a different storage buffer formulation.



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. This data was developed using the same antibody clone with 83946-4-PBS in a different storage buffer formulation.



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