

For Research Use Only

# Phospho-FANCD2 (Ser330) Polyclonal antibody



Catalog Number: 19543-1-AP

## Basic Information

<b>Catalog Number:</b> 19543-1-AP	<b>GenBank Accession Number:</b> NM_033084	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 100ul , Concentration: 762 µg/ml by Nanodrop and 762 µg/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 2177	<b>Recommended Dilutions:</b> WB 1:500-1:1000 IHC 1:20-1:200
<b>Source:</b> Rabbit	<b>Full Name:</b> Fanconi anemia, complementation group D2	
<b>Isotype:</b> IgG	<b>Calculated MW:</b> 166 kDa	
	<b>Observed MW:</b> 150-155 kDa	

## Applications

### Tested Applications:

IHC, WB, ELISA

### Species Specificity:

human

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

### Positive Controls:

WB : HL-60 cells,

IHC : human testis tissue,

## Background Information

FANCD2, also named as FACD and FACD2, is required for maintenance of chromosomal stability. FANCD2 promotes accurate and efficient pairing of homologs during meiosis. FANCD2 is involved in the repair of DNA double-strand breaks, both by homologous recombination and single-strand annealing. It may participate in S phase and G2 phase checkpoint activation upon DNA damage. It promotes BRCA2/FANCD1 loading onto damaged chromatin. FANCD2 may also be involved in B-cell immunoglobulin isotype switching. Defects in FANCD2 are a cause of Fanconi anemia (FA) which is a genetically heterogeneous, autosomal recessive disorder characterized by progressive pancytopenia, a diverse assortment of congenital malformations, and a predisposition to the development of malignancies. The antibody is to phospho-Ser(330) of FANCD2.

## Storage

### Storage:

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

### Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

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

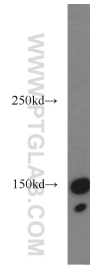
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

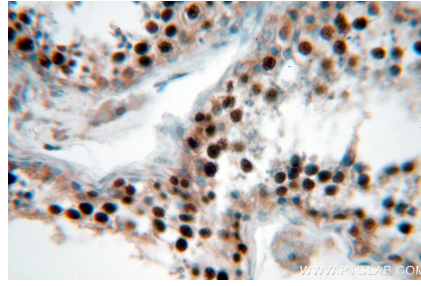
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

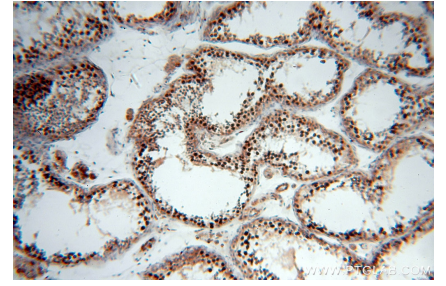
## Selected Validation Data



HL-60 cells were subjected to SDS PAGE followed by western blot with 19543-1-AP (FANCD2-phospho(S330) antibody) at dilution of 1:200 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human testis using 19543-1-AP (FANCD2-phospho(S330) antibody) at dilution of 1:50 (under 40x lens).



Immunohistochemical analysis of paraffin-embedded human testis using 19543-1-AP (FANCD2-phospho(S330) antibody) at dilution of 1:50 (under 10x lens).