

# Phospho-FANCD2 (Ser330) Polyclonal antibody

Catalog Number: 19543-1-AP

## Basic Information

**Catalog Number:**

19543-1-AP

**Size:**

762 µg/ml

**Source:**

Rabbit

**Isotype:**

IgG

**GenBank Accession Number:**

NM\_033084

**GeneID (NCBI):**

2177

**UNIPROT ID:**

Q9BXW9

**Full Name:**

Fanconi anemia, complementation group D2

**Calculated MW:**

166 kDa

**Observed MW:**

150-155 kDa

**Purification Method:**

Antigen affinity purification

**Recommended Dilutions:**

WB 1:500-1:1000

IHC 1:20-1:200

## Applications

**Tested Applications:**

IHC, WB, ELISA

**Species Specificity:**

human

**Positive Controls:**

WB : HL-60 cells,

IHC : human testis tissue,

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

## 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

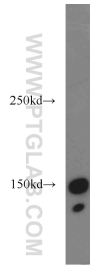
For technical support and original validation data for this product please contact:

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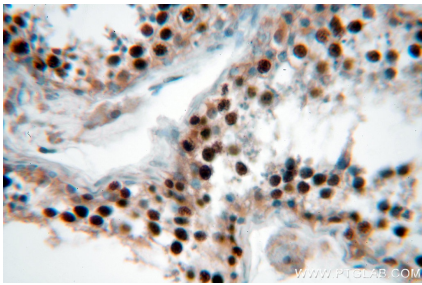
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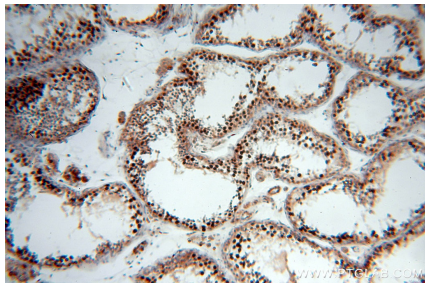
Selected Validation Data



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).