

For Research Use Only

FANCD2 Polyclonal antibody

Catalog Number: 24006-1-AP **5 Publications**



Basic Information

Catalog Number: 24006-1-AP	GenBank Accession Number: NM_033084	Purification Method: Antigen affinity purification
Size: 440 µg/ml	GeneID (NCBI): 2177	Recommended Dilutions: WB 1:200-1:1000
Source: Rabbit	UNIPROT ID: Q9BXW9	IP 0.5-4.0 µg for 1.0-3.0 mg of total protein lysate
Isotype: IgG	Full Name: Fanconi anemia, complementation group D2	IHC 1:20-1:200
	Calculated MW: 166 kDa	
	Observed MW: 150-155 kDa	

Applications

Tested Applications: IHC, IP, WB, ELISA	Positive Controls: WB : HL-60 cells, IP : mouse testis tissue, IHC : human testis tissue,
Cited Applications: WB, IF, IHC	
Species Specificity: human, mouse	
Cited Species: human	
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 recognize both un-phospho and phospho-Ser(330) of FANCD2.

Notable Publications

Author	Pubmed ID	Journal	Application
Yusuke Oku	29928579	FEBS Open Bio	WB
Huikai Miao	35236309	BMC Cancer	IHC
Anna Palovcak	37620397	Commun Biol	WB

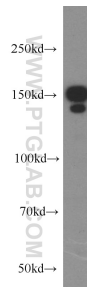
Storage

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

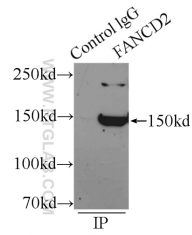
For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

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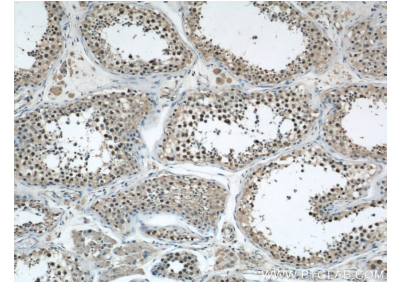
Selected Validation Data



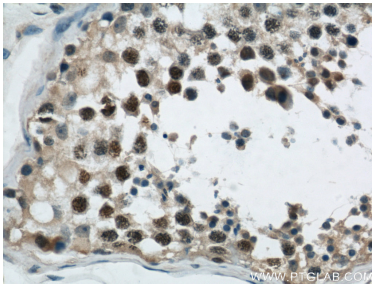
HL-60 cells were subjected to SDS PAGE followed by western blot with 24006-1-AP (FANCD2 antibody) at dilution of 1:300 incubated at room temperature for 1.5 hours.



IP result of anti-FANCD2 (IP:24006-1-AP, 4ug; Detection:24006-1-AP 1:300) with mouse testis tissue lysate 6000ug.



Immunohistochemical analysis of paraffin-embedded human testis using 24006-1-AP (FANCD2 antibody) at dilution of 1:50 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human testis using 24006-1-AP (FANCD2 antibody) at dilution of 1:50 (under 40x lens).