For Research Use Only

FANCD2 Polyclonal antibody

Catalog Number:24006-1-AP 5 Publications

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Basic Information

Catalog Number:
24006-1-AP

Size:
150ul , Concentration: 440 μg/ml by Bradford method using BSA as the standard;

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 1:200-1:1000
IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate
IHC 1:20-1:200

Applications

Tested Applications:
WB, IP, IHC, ELISA

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

Positive Controls:

WB : HL-60 cells,

IP : mouse testis tissue,

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 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

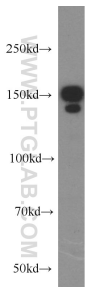
Storage

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

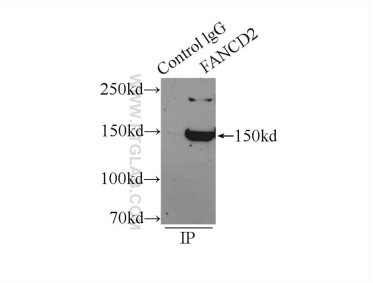
*** 20ul sizes contain 0.1% BSA

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
W: ptglab.com

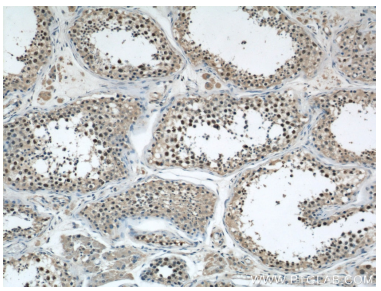
Selected Validation Data



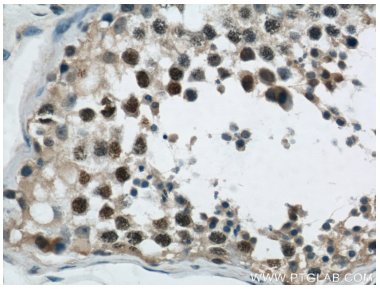
HL-60 cells were subjected to SDS PAGE followed by western blot with 24006-1-AP (FANCD2 antibody) at dilution of 1:300 incubated at room temperature for 1.5 hours.



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).