



FANCD2 Polyclonal Antibody

Catalog No	BYab-03869		
Isotype	lgG		
Reactivity	Human;Mouse;Rat		
Applications	WB;IHC;IF;ELISA		
Gene Name	FANCD2		
Protein Name	Fanconi anemia group D2 protein		
Immunogen	The antiserum was produced against synthesized peptide derived from human FANCD2. AA range:188-237		
Specificity	FANCD2 Polyclonal Antibody detects endogenous levels of FANCD2 protein.		
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.		
Source	Polyclonal, Rabbit,IgG		
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.		
Dilution	WB: 1/500 - 1/2000. IHC: 1/100 - 1/300. ELISA: 1/10000 IF 1:50-200		
Concentration	1 mg/ml		
Purity	≥90%		
Storage Stability	-20°C/1 year		
Synonyms	FANCD2; FACD; Fanconi anemia group D2 protein; Protein FACD2		
Observed Band	166kD		
Cell Pathway	Nucleus . Concentrates in nuclear foci during S phase and upon genotoxic stress. At the onset of mitosis, excluded from chromosomes and diffuses into the cytoplasm, returning to the nucleus at the end of cell division. Observed in a few spots localized in pairs on the sister chromatids of mitotic chromosome arms and not centromeres, one on each chromatids. These foci coincide with common fragile sites and could be sites of replication fork stalling. The foci are frequently interlinked through BLM-associated ultra-fine DNA bridges. Following aphidicolin treatment, targets chromatid gaps and breaks.		
Tissue Specificity	Highly expressed in germinal center cells of the spleen, tonsil, and reactive lymph nodes, and in the proliferating basal layer of squamous epithelium of tonsil, esophagus, oropharynx, larynx and cervix. Expressed in cytotrophoblastic cells of the placenta and exocrine cells of the pancreas (at protein level). Highly expressed in testis, where expression is restricted to maturing spermatocytes.		
Function	developmental stage:Highly expressed in fetal oocytes, and in hematopoietic cells of the fetal liver and bone marrow (at protein level).,disease:Defects in FANCD2		
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网址: www.njbybio.com 官方热线: 025-5229-8998 监督电话: 15950492658

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	are a cause of Fanconi anemia (FA) [MIM:227650]. FA 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. At the cellular level it is associated with hypersensitivity to DNA-damaging agents, chromosomal instability (increased chromosome breakage), and defective DNA repair.,domain:The C-terminal 24 residues of isoform 2 are required for its function.,function:Required for maintenance of chromosomal stability. Promotes accurate and efficient pairing of homologs during meiosis. Involved in the repair of DNA double-strand breaks, both by homologous recombination and single-stra
Background	Fanconi anemia complementation group D2(FANCD2) Homo sapiens The Fanconi anemia complementation group (FANC) currently includes FANCA, FANCB, FANCC, FANCD1 (also called BRCA2), FANCD2, FANCE, FANCF, FANCG, FANCI, FANCJ (also called BRIP1), FANCL, FANCM and FANCN (also called PALB2). The previously defined group FANCH is the same as FANCA. Fanconi anemia is a genetically heterogeneous recessive disorder characterized by cytogenetic instability, hypersensitivity to DNA crosslinking agents, increased chromosomal breakage, and defective DNA repair. The members of the Fanconi anemia complementation group do not share sequence similarity; they are related by their assembly into a common nuclear protein complex. This gene encodes the protein for complementation group D2. This protein is monoubiquinated in response to DNA damage, resulting in its localization to nuclear foci with other proteins (BRCA1 AND BRCA2) involved in homology-directed DNA repai
matters needing attention	Avoid repeated freezing and thawing!
Usage suggestions	This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

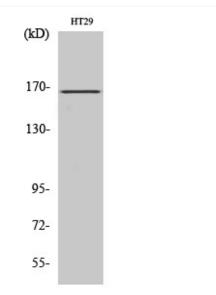
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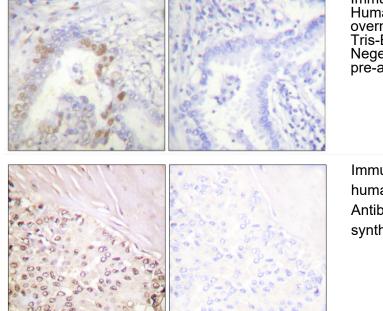
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Products Images



Western Blot analysis of various cells using FANCD2 Polyclonal Antibody diluted at 1:500 cells nucleus extracted by Minute TM Cytoplasmic and Nuclear Fractionation kit (SC-003,Inventbiotech,MN,USA).



Immunohistochemical analysis of paraffin-embedded Human lung cancer. Antibody was diluted at 1:100(4° overnight). High-pressure and temperature Tris-EDTA,pH8.0 was used for antigen retrieval. Negetive contrl (right) obtaned from antibody was pre-absorbed by immunogen peptide.

Immunohistochemistry analysis of paraffin-embedded human breast carcinoma tissue, using FANCD2 Antibody. The picture on the right is blocked with the synthesized peptide.

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FANCD2	170 130	Western blot analysis of lysates from HT-29 cells, treated with Calyculin A 50ng/ml 30', using FANCD2 Antibody. The lane on the right is blocked with the synthesized peptide.
	95	
	72	
	55	
	34 (kD)	

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