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FANCG Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP14683b

Product Information

Application	WB, IHC-P, E
Primary Accession	O15287
Other Accession	NP_004620.1
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB34569
Calculated MW	68554
Antigen Region	540-568

Additional Information

Gene ID	2189
Other Names	Fanconi anemia group G protein, Protein FACG, DNA repair protein XRCC9, FANCG, XRCC9
Target/Specificity	This FANCG antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 540-568 amino acids from the C-terminal region of human FANCG.
Dilution	WB~~1:1000 IHC-P~~1:100~500 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	FANCG Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	FANCG
Synonyms	XRCC9
Function	DNA repair protein that may operate in a postreplication repair or a cell

	cycle checkpoint function. May be implicated in interstrand DNA cross-link repair and in the maintenance of normal chromosome stability. Candidate tumor suppressor gene.
Cellular Location	Nucleus. Cytoplasm. Note=The major form is nuclear. The minor form is cytoplasmic
Tissue Location	Highly expressed in testis and thymus. Found in lymphoblasts

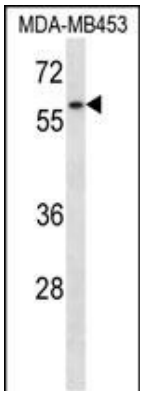
Background

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 G.

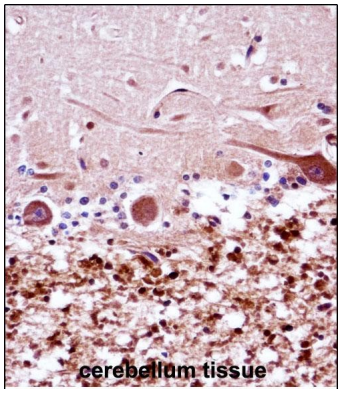
References

Bailey, S.D., et al. Diabetes Care 33(10):2250-2253(2010)
Wang, C., et al. Biochemistry 49(26):5560-5569(2010)
Monsees, G.M., et al. Breast Cancer Res. Treat. (2010) In press :
Lipkin, S.M., et al. Cancer Prev Res (Phila) 3(5):597-603(2010)
Talmud, P.J., et al. Am. J. Hum. Genet. 85(5):628-642(2009)

Images



FANCG Antibody (C-term) (Cat. #AP14683b) western blot analysis in MDA-MB453 cell line lysates (35ug/lane).This demonstrates the FANCG antibody detected the FANCG protein (arrow).



FANCG Antibody (C-term) (AP14683b)immunohistochemistry analysis in formalin fixed and paraffin embedded human cerebellum tissue followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of FANCG Antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.