

**FANCG Antibody (C-term)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP14683b****Specification**

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**FANCG Antibody (C-term) - Product Information**

Application	WB, IHC-P,E
Primary Accession	<a href="#">O15287</a>
Other Accession	<a href="#">NP_004620.1</a>
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	68554
Antigen Region	540-568

**FANCG Antibody (C-term) - 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~~1:10~50

**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.

**FANCG Antibody (C-term) - 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**

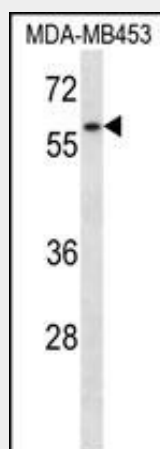
Highly expressed in testis and thymus. Found in lymphoblasts

**FANCG Antibody (C-term) - Protocols**

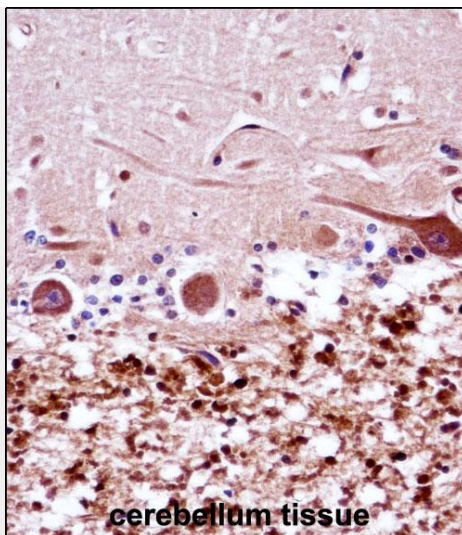
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**FANCG Antibody (C-term) - 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.

#### **FANCG Antibody (C-term) - Background**

The Fanconi anemia complementation group (FANC) currently includes FANCA, FANCB, FANCC, FANCD1 (also called BRCA2), FANCD2, FANCE, FANCF, FANCG, FANCI, FANCI (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.

#### **FANCG Antibody (C-term) - 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)