

FANCG Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a full length recombinant FANCG.

Catalog # AT1997a

Product Information

Application	WB, IF, IP, E
Primary Accession	O15287
Other Accession	BC011623
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG2a kappa
Clone Names	2C8
Calculated MW	68554

Additional Information

Gene ID	2189
Other Names	Fanconi anemia group G protein, Protein FACG, DNA repair protein XRCC9, FANCG, XRCC9
Target/Specificity	FANCG (AAH11623, 1 a.a. ~ 622 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000 IF~~1:50~200 IP~~N/A E~~N/A
Format	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Precautions	FANCG Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

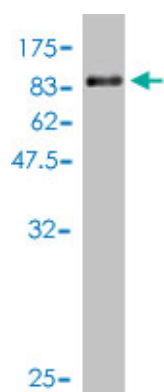
Background

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.

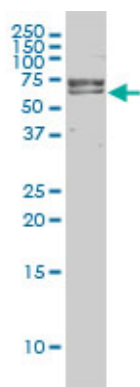
References

1.Areca Nut Induces miR-23a and Inhibits Repair of DNA Double-Strand Breaks by Targeting FANCG.Tsai YS, Lin CS, Chiang SL, Lee CH, Lee KW, Ko YC.Toxicol Sci. 2011 Oct;123(2):480-90. Epub 2011 Jul 12.2.Stimulation of Homology-directed Repair at I-SceI-induced DNA breaks during the Permissive Life Cycle of Human Cytomegalovirus.Kulkarni AS, Fortunato EA.J Virol. 2011 Apr 13. [Epub ahead of print]3.Four human FANCG polymorphic variants show normal biological function in hamster CHO cells.Hinz JM, Nham PB, Yamada NA, Tebbs RS, Salazar EP, Hinz AK, Mohrenweiser HW, Jones IM, Thompson LH.Mutat Res. 2006 Dec 1;602(1-2):34-42. Epub 2006 Sep 28.

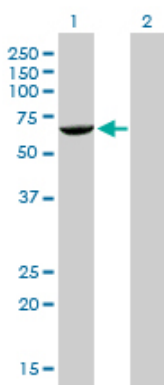
Images



Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (94.16 KDa) .



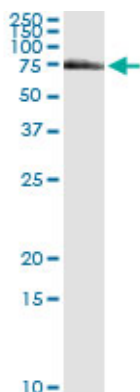
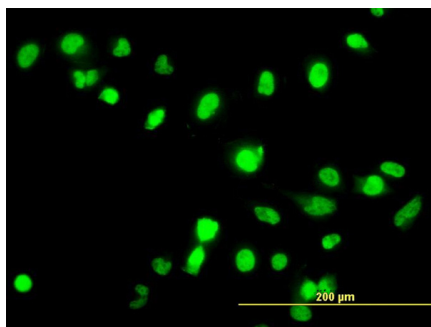
FANCG monoclonal antibody (M01), clone 2C8 Western Blot analysis of FANCG expression in HeLa S3 NE ((Cat # AT1997a)



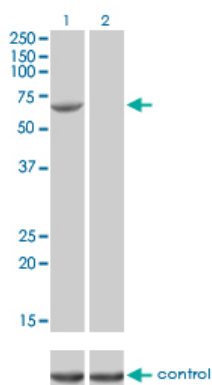
Western Blot analysis of FANCG expression in transfected 293T cell line by FANCG monoclonal antibody (M01), clone 2C8.

Lane 1: FANCG transfected lysate(68.6 KDa).
Lane 2: Non-transfected lysate.

Immunofluorescence of monoclonal antibody to FANCG on HeLa cell. [antibody concentration 10 ug/ml]



Immunoprecipitation of FANCG transfected lysate using anti-FANCG monoclonal antibody and Protein A Magnetic Bead ([U0007](#)), and immunoblotted with FANCG MaxPab rabbit polyclonal antibody.



Detection limit for recombinant GST tagged FANCG is approximately 0.03ng/ml as a capture antibody.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.