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FANCL Antibody(C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP19508b

Product Information

Application	WB, E
Primary Accession	Q9NW38
Other Accession	NP_001108108.1
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB23901
Calculated MW	42905
Antigen Region	274-302

Additional Information

Gene ID	55120
Other Names	E3 ubiquitin-protein ligase FANCL, 632-, Fanconi anemia group L protein, Fanconi anemia-associated polypeptide of 43 kDa, FAAP43, FANCL, PHF9
Target/Specificity	This FANCL antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 274-302 amino acids from the C-terminal region of human FANCL.
Dilution	WB~~1:1000 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	FANCL Antibody(C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	FANCL
Synonyms	PHF9
Function	Ubiquitin ligase protein that mediates monoubiquitination of FANCD2 in the

	presence of UBE2T, a key step in the DNA damage pathway (PubMed:12973351, PubMed:16916645, PubMed:17938197, PubMed:19111657, PubMed:24389026). Also mediates monoubiquitination of FANCI (PubMed:19589784). May stimulate the ubiquitin release from UBE2W. May be required for proper primordial germ cell proliferation in the embryonic stage, whereas it is probably not needed for spermatogonial proliferation after birth.
Cellular Location	Cytoplasm {ECO:0000250|UniProtKB:Q9CR14}. Nucleus {ECO:0000250|UniProtKB:Q9CR14}

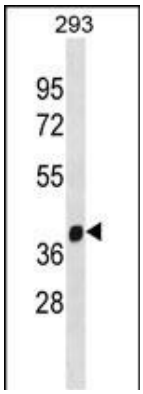
Background

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 L. Alternative splicing results in two transcript variants encoding different isoforms.

References

Zhang, J., et al. J. Clin. Invest. 120(5):1524-1534(2010)
Garcia, M.J., et al. Carcinogenesis 30(11):1898-1902(2009)
McWilliams, R.R., et al. Cancer Epidemiol. Biomarkers Prev. 18(9):2549-2552(2009)
Longerich, S., et al. J. Biol. Chem. 284(35):23182-23186(2009)
Hess, C.J., et al. Cell. Oncol. 30(4):299-306(2008)

Images



FANCL Antibody (C-term) (Cat. #AP19508b) western blot analysis in 293 cell line lysates (35ug/lane).This demonstrates the FANCL antibody detected the FANCL protein (arrow).