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Product datasheet for AP09249PU-N

FANCF Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	ELISA, WB
Recommended Dilution:	ELISA: 1:15,000 - 1:60,000. Western blot: 1:1,000 - 1:5,000 (Expect a band approximately 42 kDa in size corresponding to FANCF in the appropriate human tissue).
Reactivity:	Chimpanzee, Human
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Synthetic peptide corresponding to an internal amino acid sequence of human FANCF
Specificity:	This affinity purified antibody is directed against FANCF protein.
Formulation:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2, 0.01% (w/v) Sodium Azide State: Aff - Purified State: Liquid sterile filtered Ig fraction
Concentration:	lot specific
Purification:	Immunoaffinity chromatography
Conjugation:	Unconjugated
Storage:	Store the antibody at 2 - 8 °C up to one month or (in aliquots) at -20 °C for longer. Avoid repeated freezing and thawing. Should this product contain a precipitate we recommend microcentrifugation before use.
Stability:	Shelf life: one year from despatch.
Gene Name:	Fanconi anemia complementation group F
Database Link:	Entrez Gene 2188 Human Q9NPI8

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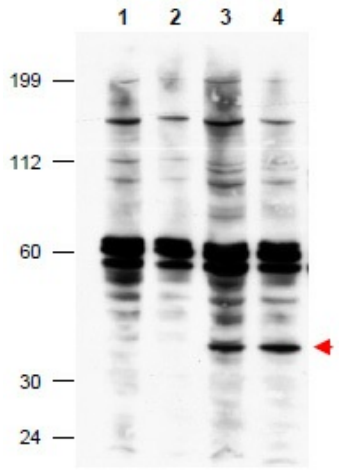
Background: FANCF (also called Protein FACF or Fanconi Anemia Group F protein) is involved in DNA repair, perhaps specifically with post-replication repair or a cell cycle checkpoint function. FANCF has also been implicated in interstrand DNA cross-link repair and in the maintenance of normal chromosome stability. FANCF belongs to the multi-subunit Fanconi Anemia (FA) complex composed of FANCA, FANCB, FANCC, FANCE, FANCF, FANCG, FANCL/PHF9 and FANCM. The complex is not found in FA patients. FANCF is found within the nucleus. Defects in FANCF are a cause of Fanconi anemia (FA). FA is a genetically heterogeneous, autosomal recessive disorder characterized by progressive pancytopaenia, 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.

Synonyms: Fanconi anemia group F protein, FACF

Product images:



Western blot using anti-FANCF antibody shows detection of FANCF present in a lysate prepared from a Fanconi anemia complementation group F patient lymphoblast after retroviral correction using hFANCF cDNA (lanes 3 and 4). This band (indicated by arrowhead) is approximately 42.3 kDa in size. The band is not detected in FA-F a lymphoblast lysate that is not corrected for the deletion and does not express the FANCF protein (lanes 1 and 2). Lanes 2 and 4 represent lysates taken from lymphoblasts after 40 J/m2 UV irradiation, whereas lanes 1 and 3 received no irradiation. No apparent difference was noted upon irradiation. The strong band at ~60kDa appears to be non-specific. Personal communication, N. Howlett, University of Rhode Island, Kingston, RI.