Datasheet for ABIN129606

anti-FANCA antibody (AA 995-1009)

2 Images | 1 Publication

Go to Product page

Overview

Quantity:	100 µg
Target:	FANCA
Binding Specificity:	AA 995-1009
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This FANCA antibody is un-conjugated
Application:	Western Blotting (WB), ELISA

Product Details

Immunogen:	This affinity purified antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide corresponding to amino acids 995-1009 of human FANCA protein.
Isotype:	IgG
Cross-Reactivity:	Chimpanzee
Characteristics:	Concentration Definition: by UV absorbance at 280 nm

Target Details

Target:	FANCA
Alternative Name:	FANCA (FANCA Products)

Target Details

Background:	FANCA (also called Protein FACA or Fanconi anemia group A protein) is involved in DNA repair, perhaps specifically with post-replication repair or a cell cycle checkpoint function. FANCA may also be implicated in interstrand DNA cross-link repair and in the maintenance of normal chromosome stability. The Fanconi anemia complementation group (FANC) currently includes FANCA, FANCB, FANCC, FANCD1 (also called BRCA2), FANCD2, FANCE, FANCF, FANCG, and FANCL. 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 Synonyms: FA 1 antibody, FA antibody, FA H antibody, FA1 antibody, FAA antibody, FACA antibody, FAH antibody, FANCH antibody
Gene ID:	2175, 66880553
UniProt:	O15360
Pathways:	DNA Damage Repair

Application Details

Application Notes:	This affinity purified antibody has been tested for use in ELISA and by western blot. Specific conditions for reactivity should be optimized by the end user. Expect a main band at approximately 163 kDa in size corresponding to FANCA by western blotting in the appropriate cell lysate or extract or human tissue.
Restrictions:	For Research Use only

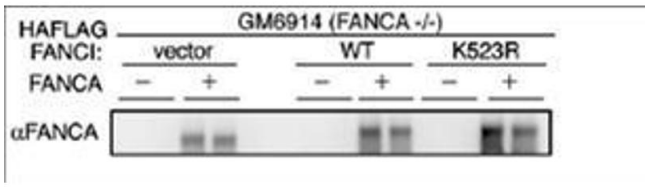
Handling

Format:	Liquid
Concentration:	2.2 mg/mL
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	Sodium azide
Precaution of Use:	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C

Publications

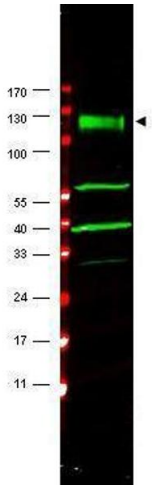
Product cited in: Maloverjan, Piirsoo, Kasak, Peil, Østerlund, Kogerman: "Dual function of UNC-51-like kinase 3 (Ulk3) in the Sonic hedgehog signaling pathway." in: **The Journal of biological chemistry**, Vol. 285, Issue 39, pp. 30079-90, (2010) (PubMed).

Images



Western Blotting

Image 1. Western blot using affinity purified anti-FANCA antibody shows detection of FANCA only in FANCA transfected GM6914 cell lysates. No staining is seen in lysates prepared from FANCA (-/-) cells in the absence of FANCA transfection. Modified from Smogorzewska et al (2007) Cell 129, 289-301.



Western Blotting

Image 2. Western blot using affinity purified anti-FANCA antibody shows detection of a band at ~133 kDa (arrowhead) corres-ponding to FANCA in HeLa whole cell lysates. The identity of the lower molecular weight bands is unknown but may represent breakdown products. Approximately 35 µg of lysate was separated by 4-20% Tris Glycine SDS-PAGE. After blocking, the membrane was probed for 2 h at room temperature with the primary antibody diluted to 1:1,500. The membrane was washed and reacted with a 1:10,000 dilution of800 conjugated Gt-a-Rabbit IgG [H&L] for 45 min at room temperature (800 nm channel, green). Molecular weight estimation was made by comparison to prestained MW markers indicated at left (700 nm channel, red). 800 fluorescence images were captured using the Infrared Imaging System developed by LI-COR. IRDye is a trademark of LI-COR, Inc. Other detection systems will yield similar results.