Product Name: KD-Validated FANCA Recombinant Rabbit Monoclonal Antibody
Catalog #: KVAb01621
For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC
Reactivity	Human
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 162.8kDa

Antigen Information

Gene Name	FANCA
Alternative Names	FANCA; FA Complementation Group A; FAA; FANCH; FA-H; FACA; FAH; Fanconi Anemia Complementation Group A; Fanconi Anemia Group A Protein; Fanconi Anemia, Complementation Group H; Fanconi Anemia, Type 1; Protein FACA; FA1; FA
Gene ID	2175.0
SwissProt ID	O15360
Immunogen	A synthesized peptide derived from human FANCA

Background

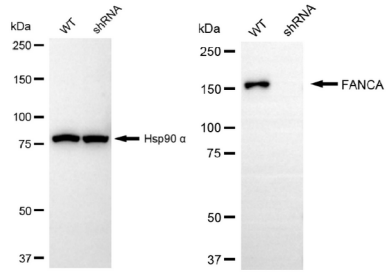
The Fanconi anemia complementation group (FANC) currently includes FANCA, FANCB, FANCC, FANCD1 (also called BRCA2), FANCD2, FANCE, FANCF, FANCG, FANCI, FANCJ (also called BRIP1), FANCL, FANCM and FANCN (also called PALB2). The

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 A. Alternative splicing results in multiple transcript variants encoding different isoforms. Mutations in this gene are the most common cause of Fanconi anemia. [provided by RefSeq, Jul 2008]

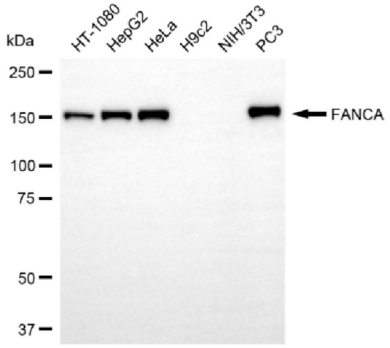
Research Area

Epigenetics and Nuclear Signaling

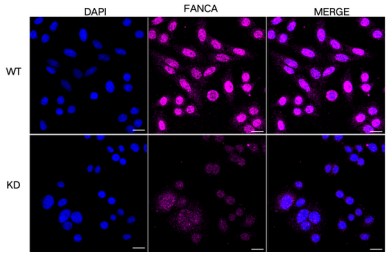
Image Data



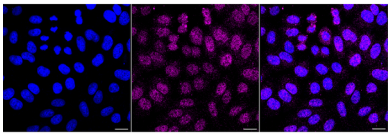
Western blotting analysis using FANCA antibody (KVAb01621). FANCA expression in wild-type (WT) and FANCA shRNA knockdown (KD) HepG2 cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with FANCA antibody (KVAb01621, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



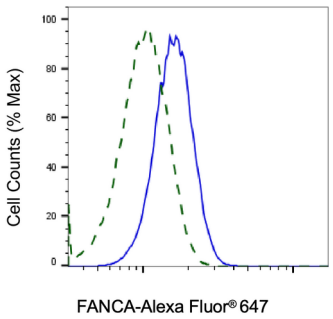
Western blotting analysis using FANCA antibody (KVAb01621). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with FANCA antibody (KVAb01621, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunocytochemical staining of HepG2 cells using FANCA antibody (KVAb01621, 1:1,000), Top panel: wild-type (WT); Bottom panal: FANCA shRNA knockdown (KD). Nuclei were stained blue with DAPI; FANCA was stained magenta with Alexa Fluor® 647. Scale bar, 20 µm.



Immunocytochemical staining of HepG2 cells with FANCA antibody (KVAb01621, 1:1,000). Nuclei were stained blue with DAPI; FANCA was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Low. Scale bar, 20 µm.



Validation of FANCA knockdown using flow cytometry. Wild-type(WT, Blue) and knockdown(KD, Green) HepG2 cells were stained with FANCA antibody (KVAb01621, 1:2,000) and analyzed using BD flow cytometer.