

Product datasheet for **TA336272**

FANCD2 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	ChIP, FC, ICC/IF, IHC, Immunoblotting, IP, Simple Western, WB
Recommended Dilution:	Immunocytochemistry/ Immunofluorescence: 5 ug/ml, Chromatin Immunoprecipitation (ChIP), Flow Cytometry: 2 - 5 ug/ml, Simple Western: 1:25, Immunoprecipitation: 1:10-1:500, Immunohistochemistry-Paraffin: 2.5-5.0 ug/ml, Immunohistochemistry: 2.5-5.0 ug/ml, Western Blot: 1 - 2 ug/ml, RNA Inhibition, Immunoblotting, Chromatin Immunoprecipitation, Knockdown Validated, Knockout Validated
Reactivity:	Human, Mouse, Primate
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Human FANCD2 fusion protein (N-terminal fragment). [Swiss-Prot #Q9BXW9]
Formulation:	Tris-glycine, 150mM NaCl, pH7.5, 0.05% Sodium Azide. Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.
Concentration:	lot specific
Purification:	Affinity purified
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	Fanconi anemia complementation group D2
Database Link:	NP_001018125 Entrez Gene 211651 Mouse Entrez Gene 2177 Human Q9BXW9
Background:	Fanconi anemia (FANC) is a human autosomal-recessive cancer susceptibility disorder characterized by congenital defects, progressive bone marrow failure, and cellular hypersensitivity to mitomycin C (MMC). The FANC subunit D2 protein is vital for cellular resistance to DNA cross-linking and the arrest of DNA synthesis after ionizing radiation (IR). DNA damage activates the monoubiquitination of FANCD2, targeting nuclear foci containing the BRCA1 protein.



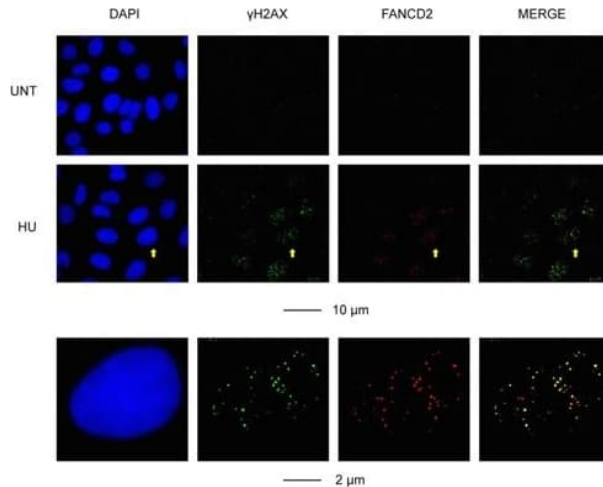
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Synonyms: FA-D2; FA4; FACD; FAD; FAD2; FANCD

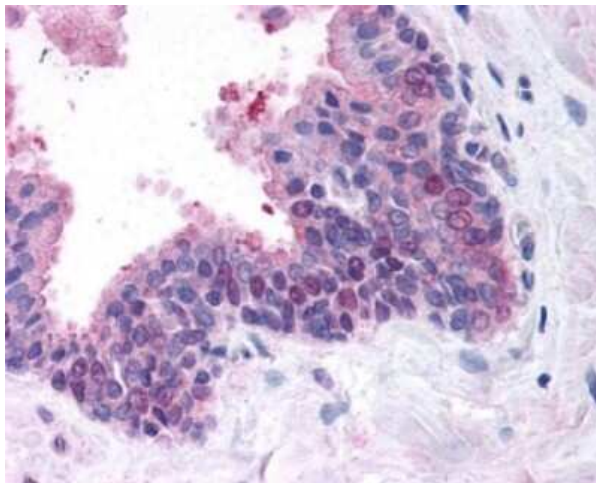
Note: By Western blot, this antibody should recognize a band at ~166 kDa (post-translationally modified form). Additional bands may be seen at lower molecular weights. For immunofluorescence it has been tested in human MMC and IR treated MEF cells. This antibody may also be used for Immunoprecipitation and Immunohistochemistry-Paraffin

Protein Families: Druggable Genome

Product images:



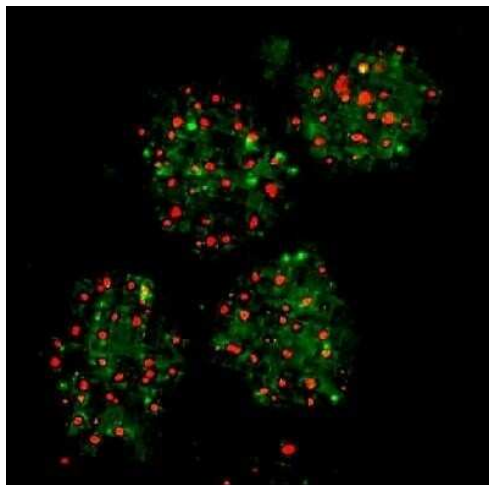
Representative images of the cellular response to RS (induced by a low dose of hydroxyurea; HU) in U2OS cells, as determined by IF staining for γ H2AX and FANCD2A selected cell is defined by the yellow arrow, and is enlarged in the bottom panel. Scale bars are indicated.



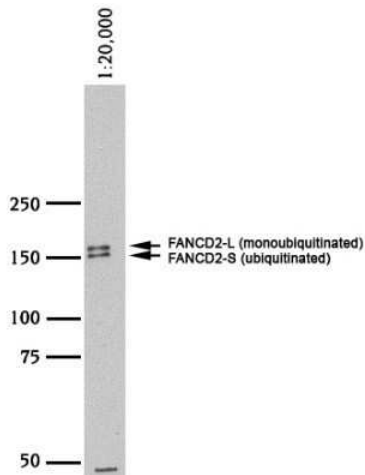
Immunohistochemistry: FANCD2 Antibody TA336272 - Staining of human prostate, glandular epithelium using FANCD2 Antibody. Image using the Biotin format of this antibody.



Simple Western: FANCD2 Antibody - BSA Free TA336272 - FANCD2 Antibody TA336272 - Simple Western lane view shows a specific band for FANCD2 in 0.1 mg/ml of HeLa lysate using FANCD2 Antibody. This experiment was performed under reducing conditions using the 12-230 kDa separation system.



Immunocytochemistry/Immunofluorescence: FANCD2 Antibody - BSA Free TA336272 - FANCD2 Antibody TA336272 - Analysis using the Biotin conjugate of FANCD2 Antibody. FANCD2 colocalizes in vivo with another protein in SiHa cells after cell exposure to IR. Proliferating SiHa cells were exposed to 10 Gy of IR and double color immunofluorescence staining was performed after 8 h. Images were captured in a Kodak digital image system on a Leica fluorescence microscope.



Western Blot: FANCD2 Antibody TA336272 - Analysis of FANCD2 (Molecular weight: 164.1 KDa) using the HRP conjugate of FANCD2 Antibody (lot C) in HeLa WCE.