**FANCI (A-7): sc-271316**

**BACKGROUND**

Fanconi anemia (FA) is an autosomal recessive disorder characterized by bone marrow failure, birth defects and chromosomal instability. At the cellular level, FA is characterized by spontaneous chromosomal breakage and a unique hypersensitivity to DNA cross-linking agents. FANCI (Fanconi anemia, complementation group I), also known as KIAA1794, is a 1,328 amino acid protein that localizes to the nucleus and is subject to monoubiquitination and DNA damage-dependent phosphorylation. Interacting directly with FANCD2, FANCI is required for the maintenance of chromosomal stability and is also involved in DNA recombination and repair in response to double-strand breaks and DNA cross-links. Defects in the gene encoding FANCI are associated with the pathogenesis of FA. FANCI is expressed as four alternatively spliced isoforms and is encoded by a gene that maps to human chromosome 15q26.1.

**CHROMOSOMAL LOCATION**

Genetic locus: FANCI (human) mapping to 15q26.1.

**SOURCE**

FANCI (A-7) is a mouse monoclonal antibody raised against amino acids 1002-1103 mapping near the C-terminus of FANCI of human origin.

**PRODUCT**

Each vial contains 200 µg IgG, kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

FANCI (A-7) is available conjugated to agarose (sc-271316 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-271316 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-271316 PE), fluorescein (sc-271316 FITC), Alexa Fluor® 488 (sc-271316 AF488), Alexa Fluor® 546 (sc-271316 AF546), Alexa Fluor® 594 (sc-271316 AF594) or Alexa Fluor® 647 (sc-271316 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-271316 AF680) or Alexa Fluor® 790 (sc-271316 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

**APPLICATIONS**

FANCI (A-7) is recommended for detection of FANCI of human origin by Western Blotting (starting dilution 1:100, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for FANCI siRNA (h): sc-90074, FANCI shRNA Plasmid (h): sc-90074-SH and FANCI shRNA (h) Lentiviral Particles: sc-90074-V.

Molecular Weight of FANCI: 150 kDa.

Positive Controls: HeLa whole cell lysate: sc-2200, Raji whole cell lysate: sc-364236 or U-2 OS cell lysate: sc-2295.

**STORAGE**

Store at 4°C. **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

**RESEARCH USE**

For research use only, not for use in diagnostic procedures.

**DATA**

**SELECT PRODUCT CITATIONS**


**PROTOCOLS**

See our web site at www.scbt.com for detailed protocols and support products.