FANCI Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	FANCI, Polyclonal Antibody
Full Product Name	FANCI Polyclonal Conjugated Antibody
Product Gene Name	anti-FANCI antibody
Product Synonym Names	FANCI Conjugated Antibody; FANCI; KIAA1794; Fanconi anemia group I protein
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	0.01M Sodium Phosphate, 0.25M NaCl, pH 7.6, 5mg/ml Bovine Serum Albumin, 0.02% Sodium Azide
Purity/Purification	Affinity purification
Preparation and Storage	Store at 4 degree C for 6 months.
Molecular Weight	~150 kDa
OMIM	phenotype 611360
3D Structure	ModBase 3D Structure for Q9NVI1
Immunogen	Recombinant fusion protein of human FANCI (NP_001106849.1).
Conjugation	Biotin AF350 AF405 AF488 AF555 AF594 AF647 AF680 AF750
Excitation Emission	AF350: 346nm/442nm
Applications Tested/Suitable for anti-FANCI antibody	Most Applications
Application Notes for anti-FANCI antibody	Suggested Dilution: AF350 conjugated: most applications: 1:50-1:250 AF405 conjugated: most applications: 1:50-1:250 AF488 conjugated: most applications: 1:50-1:250 AF555 conjugated: most applications: 1:50-1:250 AF594 conjugated: most applications: 1:50-1:250 AF647 conjugated: most applications: 1:50-1:250 AF680 conjugated: most applications: 1:50-1:250 AF750 conjugated: most applications: 1:50-1:250 Biotin conjugated: working with enzyme-conjugated streptavidin, most applications: 1:50-1:1000
Related Product Information for anti-FANCI antibody	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 I. Alternative splicing results in two transcript variants encoding different isoforms.

Other Notes	Small volumes of anti-FANCI antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for FANCI purchase	MBS9441632 is an antibody targeting FANCI. Also known as FANCI Polyclonal Conjugated Antibody. Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for FANCI. It may not necessarily be applicable to this product.

NCBI GI #	164607124
NCBI GeneID	55215
NCBI Accession #	NP_001106849.1
UniProt Primary Accession #	Q9NVI1
UniProt Secondary Accession #	Q96JN1; Q96ST0; Q9BT96; A4ZVE4; A5YMH4; A6NJZ0
UniProt Related Accession #	Q9NVI1
GenBank Nucleotide #	NM_001113378.1
NCBI Official Full Name	Fanconi anemia group I protein isoform 1
NCBI Official Synonym Full Names	Fanconi anemia complementation group I
NCBI Official Symbol	FANCI
NCBI Official Synonym Symbols	KIAA1794
UniProt Protein Name	Fanconi anemia group I protein
Protein Family	Fanconi anemia group I protein
UniProt Gene Name	FANCI
UniProt Synonym Gene Names	KIAA1794; Protein FACI
UniProt Entry Name	FANCI_HUMAN
NCBI Protein Information	Fanconi anemia group I protein
UniProt Comments for FANCI	FANCI: Plays an essential role in the repair of DNA double- strand breaks by homologous recombination and in the repair of interstrand DNA cross-links (ICLs) by promoting FANCD2 monoubiquitination by FANCL and participating in recruitment to DNA repair sites. Required for maintenance of chromosomal stability. Specifically binds branched DNA: binds both single- stranded DNA (ssDNA) and double-stranded DNA (dsDNA). Participates in S phase and G2 phase checkpoint activation upon DNA damage. Defects in FANCI are a cause of Fanconi anemia complementation group I (FANCI). A disorder affecting all bone marrow elements and resulting in anemia, leukopenia and thrombopenia. It is associated with cardiac, renal and limb malformations, dermal pigmentary changes, 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. 4 isoforms of the human protein are produced by alternative splicing. Protein type: DNA repair, damage; Cell cycle regulation Chromosomal Location of Human Ortholog: 15q26.1 Cellular Component: nucleoplasm; membrane; cytoplasm; plasma membrane; nucleus Molecular Function: protein binding; DNA binding Biological Process: positive regulation of protein ubiquitination; cell cycle; DNA repair Disease: Fanconi Anemia, Complementation Group I; Tracheoesophageal Fistula With Or Without Esophageal Atresia

Research Articles on FANCI	**1.** Data suggest that FANCI and FANCD2 have partially non-overlapping and possibly even opposing roles during the replication stress response.
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