FANCB Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	FANCB, Polyclonal Antibody
Full Product Name	FANCB, ID (FANCB, Fanconi anemia group B protein, Fanconi anemia-associated polypeptide of 95kD) (MaxLight 405)
Product Gene Name	anti-FANCB antibody
Product Synonym Names	FANCB; Fanconi anemia group B protein; Fanconi anemia-associated polypeptide of 95kD
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight405.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight405 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	97,726 Da
Chromosome Location	Chromosome: X; NC_000023.10 (14861529..14891184, complement). Location: Xp22.2
OMIM	227650
3D Structure	ModBase 3D Structure for Q8NB91
Immunogen	FANCB antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 359-388 amino acids from the Central region of human FANCB.
Conjugate	MaxLight405
Note	Preservative Free
Product Categories/Family for anti-FANCB antibody	Antibodies; Fanconi Proteins
Applications Tested/Suitable for anti-FANCB antibody	Western Blot (WB), FLISA
Application Notes for anti-FANCB antibody	WB: 1:100-500 FLISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-FANCB 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 B. Alternative splicing results in two transcript variants encoding the same protein.

Product References and Citations for anti-FANCB antibody	Cheung, K.L., et al. World J Surg Oncol 8, 38 (2010): Smith, I.M., et al. ORL J. Otorhinolaryngol. Relat. Spec. 72(1):44-50(2010). Barroso, E., et al. Breast Cancer Res. Treat. 118(3):655-660(2009). Garcia, M.J., et al. Breast Cancer Res. Treat. 113(3):545-551(2009). Nomura, Y., et al. Genes Cells 12(10):1111-1122(2007).
Other Notes	Small volumes of anti-FANCB 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 FANCB purchase	MBS6297982 is an antibody targeting FANCB. Also known as FANCB, ID (FANCB, Fanconi anemia group B protein, Fanconi anemia-associated polypeptide of 95kD) (MaxLight 405). Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

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

NCBI GI #	66528785
NCBI GeneID	2187
NCBI Accession #	NP_001018123.1
UniProt Primary Accession #	Q8NB91
UniProt Secondary Accession #	Q7Z2U2; Q86XG1; B2RMZ4
UniProt Related Accession #	Q8NB91
GenBank Nucleotide #	NM_001018113.1
NCBI Official Full Name	Fanconi anemia group B protein
NCBI Official Synonym Full Names	Fanconi anemia, complementation group B
NCBI Official Symbol	FANCB
NCBI Official Synonym Symbols	FA2; FAB; FACB; FAAP90; FAAP95
UniProt Protein Name	Fanconi anemia group B protein
UniProt Synonym Protein Names	Fanconi anemia-associated polypeptide of 95 kDa
Protein Family	Fanconi anemia group B protein
UniProt Gene Name	FANCB
UniProt Synonym Gene Names	Protein FACB; FAAP95
UniProt Entry Name	FANCB_HUMAN
NCBI Protein Information	Fanconi anemia group B protein; Fanconi anemia-associated polypeptide of 95 kDa

UniProt Comments for FANCB	Function: DNA repair protein required for FANCD2 ubiquitination. Ref.4 Subunit structure: Belongs to the multisubunit FA complex composed of FANCA, FANCB, FANCC, FANCE, FANCF, FANCG, FANCL/PHF9 and FANCM. The complex is not found in FA patients. Ref.4 Ref.5 Subcellular location: Nucleus Ref.4. Involvement in disease: Fanconi anemia complementation group B (FANCB) [MIM:300514]: 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. Some severe FANCB cases manifest features of VACTERL syndrome with hydrocephalus.Note: The disease is caused by mutations affecting the gene represented in this entry. Ref.4 Ref.6 Sequence caution: The sequence AAH43596.1 differs from that shown. Reason: Contaminating sequence. Potential poly-A sequence.The sequence AAH55411.1 differs from that shown. Reason: Contaminating sequence. Potential poly-A sequence.
Research Articles on FANCB	**1.** Loss-of-function FANCB mutations result in a recognizable, multiple malformation phenotype in hemizygous males for which we propose clinical criteria to aid diagnosis.
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