FANCG Peptide - Middle Region Blocking Peptide

PRODUCT OVERVIEW

Product Name	FANCG, Blocking Peptide
Full Product Name	FANCG Peptide - middle region
Product Gene Name	FANCG blocking peptide
Product Synonym Gene Name	FAG; XRCC9
Sequence	Synthetic peptide located within the following region: KSDAALQQLR AAALISRGLE WVASGQDTKA LQDFLLSVQM CPGNRDTYFH
Species Reactivity	Human
Form/Format	Lyophilized powder
Preparation and Storage	Add 100ul of sterile PBS. Final peptide concentration is 1 mg/ml in PBS. For longer periods of storage, store at -20 degree C. Avoid repeat freeze-thaw cycles.
Antibody/Peptide Pairs	FANCG peptide (MBS3247089) is used for blocking the activity of FANCG antibody (MBS3222418)
Molecular Weight	68 kDa
OMIM	602956
Product Categories/Family for FANCG blocking peptide	Peptide
Related Product Information for FANCG blocking peptide	This is a synthetic peptide designed for use in combination with anti- FANCG Antibody, made Target Description: 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 G.
Other Notes	Small volumes of FANCG blocking peptide 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 FANCG purchase	MBS3247089 is a blocking peptide targeting FANCG. Also known as FANCG Peptide - middle region. Reactive in Human.

ADDITIONAL DETAILS

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

NCBI GI #	4759336
NCBI GeneID	2189
NCBI Accession #	NP_004620.1
UniProt Primary Accession #	O15287
UniProt Related Accession #	O15287
GenBank Nucleotide #	NM_004629.1

NCBI Official Full Name	Fanconi anemia group G protein
NCBI Official Synonym Full Names	FA complementation group G
NCBI Official Symbol	FANCG
NCBI Official Synonym Symbols	FAG; XRCC9
UniProt Protein Name	Fanconi anemia group G protein
UniProt Synonym Protein Names	DNA repair protein XRCC9
Protein Family	Fanconi anemia group G protein
UniProt Gene Name	FANCG
UniProt Synonym Gene Names	XRCC9; Protein FACG
UniProt Entry Name	FANCG_HUMAN
NCBI Protein Information	Fanconi anemia group G protein
NCBI Summary for FANCG	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 G. [provided by RefSeq, Jul 2008]
UniProt Comments for FANCG	FANCG: DNA repair protein that may operate in a postreplication repair or a cell cycle checkpoint function. May be implicated in interstrand DNA cross-link repair and in the maintenance of normal chromosome stability. Candidate tumor suppressor gene. Defects in FANCG are a cause of Fanconi anemia complementation group G (FANCG). 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. Protein type: DNA repair, damage Chromosomal Location of Human Ortholog: 9p13 Cellular Component: nucleoplasm; mitochondrion; cytoplasm; nucleolus; plasma membrane Molecular Function: protein binding; damaged DNA binding Biological Process: mitochondrion organization and biogenesis; response to radiation; ovarian follicle development; DNA repair; cell cycle checkpoint; spermatid development Disease: Fanconi Anemia, Complementation Group G; Tracheoesophageal Fistula With Or Without Esophageal Atresia
Research Articles on FANCG	**1.** LOH may predominantly indicate copy number gains in FANCF and losses in FANCG and BRIP1. Integration of copy number data and gene expression proved difficult as the available sample sets did not overlap.
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