RFC3 Antibody (Center) Blocking Peptide

PRODUCT OVERVIEW

Product Name	RFC3, Blocking Peptide
Full Product Name	RFC3 Antibody (Center) Blocking Peptide
Product Gene Name	RFC3 blocking peptide
Product Synonym Names	Replication factor C subunit 3; Activator 1 38 kDa subunit; A1 38 kDa subunit; Activator 1 subunit 3; Replication factor C 38 kDa subunit; RF-C 38 kDa subunit; RFC38; RFC3
Form/Format	Synthetic peptide was lyophilized with 100% acetonitrile and is supplied as a powder. Reconstitute with 0.1 ml DI water for a final concentration of 1 mg/ml.
Specificity	The synthetic peptide sequence used to generate the antibody was selected from the Center region of human RFC3. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C.
Antibody/Peptide Pairs	RFC3 peptide (MBS9224894) is used for blocking the activity of RFC3 antibody (MBS9207193)
Molecular Weight	34,756 Da
OMIM	600405
Cellular Location	Nucleus.
Related Product Information for RFC3 blocking peptide	The elongation of primed DNA templates by DNA polymerase delta and epsilon requires the action of the accessory proteins proliferating cell nuclear antigen (PCNA) and activator 1.
Other Notes	Small volumes of RFC3 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 RFC3 purchase	MBS9224894 is a blocking peptide targeting RFC3. Also known as RFC3 Antibody (Center) Blocking Peptide.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for RFC3. It may not necessarily be applicable to this product.

NCBI GI #	3915601
NCBI GeneID	5983
NCBI Accession #	P40938.2
UniProt Primary Accession #	P40938
UniProt Secondary Accession #	O15252; Q5W0E8; C9JU95
UniProt Related Accession #	P40938
NCBI Official Full Name	Replication factor C subunit 3
NCBI Official Synonym Full Names	replication factor C subunit 3
NCBI Official Symbol	RFC3
NCBI Official Synonym Symbols	RFC38
UniProt Protein Name	Replication factor C subunit 3

UniProt Synonym Protein Names	Activator 1 38 kDa subunit; A1 38 kDa subunit; Activator 1 subunit 3; Replication factor C 38 kDa subunit; RF-C 38 kDa subunit; RFC38
Protein Family	Probable replication factor
UniProt Gene Name	RFC3
UniProt Synonym Gene Names	A1 38 kDa subunit; RF-C 38 kDa subunit; RFC38
UniProt Entry Name	RFC3_HUMAN
NCBI Protein Information	replication factor C subunit 3
NCBI Summary for RFC3	The elongation of primed DNA templates by DNA polymerase delta and DNA polymerase epsilon requires the accessory proteins proliferating cell nuclear antigen (PCNA) and replication factor C (RFC). RFC, also named activator 1, is a protein complex consisting of five distinct subunits of 140, 40, 38, 37, and 36 kDa. This gene encodes the 38 kDa subunit. This subunit is essential for the interaction between the 140 kDa subunit and the core complex that consists of the 36, 37, and 40 kDa subunits. Alternatively spliced transcript variants encoding distinct isoforms have been described. [provided by RefSeq, Jul 2008]
UniProt Comments for RFC3	RFC3: The elongation of primed DNA templates by DNA polymerase delta and epsilon requires the action of the accessory proteins proliferating cell nuclear antigen (PCNA) and activator 1. Belongs to the activator 1 small subunits family. Protein type: DNA-binding Chromosomal Location of Human Ortholog: 13q13.2 Cellular Component: DNA replication factor C complex; nucleoplasm Molecular Function: ATPase activity; DNA binding; DNA clamp loader activity; protein binding; single-stranded DNA-dependent ATPase activity Biological Process: bypass DNA synthesis; DNA damage response, detection of DNA damage; DNA replication; DNA strand elongation during DNA replication; DNA synthesis during DNA repair; error-prone postreplication DNA repair; nucleotide-excision repair, DNA gap filling; nucleotide-excision repair, DNA incision; nucleotide-excision repair, DNA incision, 5'-to lesion; response to organophosphorus; telomere maintenance via recombination; transcription-coupled nucleotide-excision repair
Research Articles on RFC3	**1.** High RFC3 expression is associated with neoplastic myelopoiesis.
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