RPA4 Blocking Peptide

PRODUCT OVERVIEW

Product Name	RPA4, Blocking Peptide
Full Product Name	RPA4 Peptide
Product Gene Name	RPA4 blocking peptide
Product Synonym Gene Name	HSU24186; MGC120333; MGC120334
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	RPA4 peptide (MBS3236903) is used for blocking the activity of RPA4 antibody (MBS3211956)
Molecular Weight	29kDa
OMIM	300767
Product Categories/Family for RPA4 blocking peptide	Peptide
Applications Tested/Suitable for RPA4 blocking peptide	Western Blot (WB)
Related Product Information for RPA4 blocking peptide	This is a synthetic peptide designed for use in combination with anti-RPA4 antibody made Target Description: Replication protein A (RPA) is an essential factor for DNA double-strand break repair and cell cycle checkpoint activation. RPA4 is the 32-kDa subunit of the RPA, which associates with the 70- and 13-kDa subunits to form a trimeric RPA complex.Replication protein A (RPA) is an essential factor for DNA double-strand break repair and cell cycle checkpoint activation. This gene encodes the 32-kDa subunit of the RPA, which associates with the 70- and 13-kDa subunits to form a trimeric RPA complex. PRIMARYREFSEQ_SPAN PRIMARY_IDENTIFIER PRIMARY_SPAN COMP 1-1448 BC069824.1 1-1448
Other Notes	Small volumes of RPA4 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 RPA4 purchase	MBS3236903 is a blocking peptide targeting RPA4. Also known as RPA4 Peptide.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for RPA4. It may not necessarily be applicable to this product.

NCBI GI #	9558731
NCBI GeneID	29935
NCBI Accession #	NP_037479
UniProt Primary Accession #	Q13156
UniProt Related Accession #	Q13156
GenBank Nucleotide #	NM_013347
NCBI Official Full Name	replication protein A 30 kDa subunit
NCBI Official Synonym Full Names	replication protein A4

NCBI Official Symbol	RPA4
NCBI Official Synonym Symbols	HSU24186
UniProt Protein Name	Replication protein A 30 kDa subunit
UniProt Synonym Protein Names	Replication factor A protein 4
Protein Family	Replication protein
UniProt Gene Name	RPA4
UniProt Synonym Gene Names	RP-A p30
UniProt Entry Name	RFA4_HUMAN
NCBI Protein Information	replication protein A 30 kDa subunit
NCBI Summary for RPA4	This gene encodes a single-stranded DNA-binding protein that is the 30-kDa subunit of the replication protein A complex. Replication protein A is an essential factor for DNA double-strand break repair and cell cycle checkpoint activation. The encoded protein localizes to DNA repair foci and may be involved in the cellular DNA damage response. This protein may also play a role in inhibiting viral replication.[provided by RefSeq, Apr 2010]
UniProt Comments for RPA4	RPA4: functions as component of the alternative replication protein A complex (aRPA). aRPA binds single-stranded DNA and probably plays a role in DNA repair; it does not support chromosomal DNA replication and cell cycle progression through S-phase. In vitro, aRPA cannot promote efficient priming by DNA polymerase alpha but supports DNA polymerase delta synthesis in the presence of PCNA and replication factor C (RFC), the dual incision/excision reaction of nucleotide excision repair and RAD51-dependent strand exchange. Component of the alternative replication protein A complex (aRPA) composed of RPA1, RPA3 and RPA4. Interacts with RPA1 and RPA3. Localizes to DNA repair foci after DNA damage. Chromosomal Location of Human Ortholog: Xq21.33 Cellular Component: nucleoplasm; DNA replication factor A complex; nucleus Molecular Function: single-stranded DNA binding Biological Process: DNA replication initiation; nucleotide-excision repair; DNA damage checkpoint; DNA replication during S phase; mitotic cell cycle; G1/S transition of mitotic cell cycle; DNA recombination
Research Articles on RPA4	**1.** Findings provide the first direct evidence for the function of alternative form of RPA in human DNA metabolism and support a model for aRPA functioning in chromosome maintenance functions in nonproliferating cells.
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