RPA4 Blocking Peptide – >85% Purity

PRODUCT OVERVIEW

Product Name	RPA4, Blocking Peptide
Full Product Name	RPA4 Blocking Peptide
Product Gene Name	RPA4 blocking peptide
Product Synonym Names	Replication protein A 30 kDa subunit; RP-A p30; Replication factor A protein 4; RF-A protein 4
Host	Synthetic
Species Reactivity	Human, Mouse, Rat
Form/Format	Lyophilized powder
Purity/Purification	>85%
Preparation and Storage	Shipped at 4 degree C. Store at -20 degree C for one year.
Antibody/Peptide Pairs	RPA4 peptide (MBS8205878) is used for blocking the activity of RPA4 antibody (MBS8230797)
Molecular Weight	28,868 Da
OMIM	300767
Quality Control	The quality of the peptide was evaluated by reversed-phase HPLC and by mass spectrometry.
Directions for Use	Blocking Peptide to the diluted primary antibody in a molar ratio of 10:1 (peptide to antibody) and incubate the mixture at 4 degree C for overnight or at room temperature for 2 hours.
Applications Tested/Suitable for RPA4 blocking peptide	Blocking (BL)
Related Product Information for RPA4 blocking peptide	MBS8205878 is a blocking peptide targeting RPA4. Reactive in Human, Mouse, Rat. Host: Synthetic. The peptide is used to block Anti-RPA4 Antibody reactivity.
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.

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_037479.1
UniProt Primary Accession #	Q13156
UniProt Secondary Accession #	Q3SY03
UniProt Related Accession #	Q13156
GenBank Nucleotide #	NM_013347.4
NCBI Official Full Name	replication protein A 30 kDa subunit
NCBI Official Synonym Full Names	replication protein A4, 30kDa

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; RF-A protein 4
Protein Family	Replication protein
UniProt Gene Name	RPA4
UniProt Synonym Gene Names	RP-A p30; RF-A protein 4
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; DNA recombination; G1/S transition of mitotic cell cycle
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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