RPAIN Antibody (N-Term) Blocking Peptide

PRODUCT OVERVIEW

Product Name	RPAIN, Blocking Peptide
Full Product Name	RPAIN Antibody (N-term) Blocking Peptide
Product Gene Name	RPAIN blocking peptide
Product Synonym Gene Name	RIP
Product Synonym Names	RPA-interacting protein; hRIP; RPAIN; RIP
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.
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	RPAIN peptide (MBS9221875) is used for blocking the activity of RPAIN antibody (MBS9201645)
Molecular Weight	17,118 Da
Cellular Location	Isoform 1: Cytoplasm. Nucleus.
Tissue Location	Widely expressed. Expressed in pancreas, kidney, muscle, liver, lung, placenta, brain, heart, leukocytes, colon, intestine, ovary, testis, prostate, thymus and spleen
Related Product Information for RPAIN blocking peptide	Mediates the import of RPA complex into the nucleus, possibly via some interaction with importin beta. Isoform 2 is sumoylated and mediates the localization of RPA complex into the PML body of the nucleus, thereby participating in RPA function in DNA metabolism.
Other Notes	Small volumes of RPAIN 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 RPAIN purchase	MBS9221875 is a blocking peptide targeting RPAIN. Also known as RPAIN Antibody (N-term) Blocking Peptide.

ADDITIONAL DETAILS

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

NCBI GI #	74727468
NCBI GeneID	84268
NCBI Accession #	Q86UA6.1
UniProt Primary Accession #	Q86UA6
UniProt Secondary Accession #	Q4G2Y0; Q4G2Y5; Q4G2Y8; Q6B4V9; Q6B4W0; Q6B4W1; Q6B4W4; B4DI36; B4DTX7; E9PES3; J3KNH8
UniProt Related Accession #	Q86UA6
NCBI Official Full Name	RPA-interacting protein
NCBI Official Synonym Full Names	RPA interacting protein
NCBI Official Symbol	RPAIN
NCBI Official Synonym Symbols	RIP; HRIP
UniProt Protein Name	RPA-interacting protein

Protein Family	RPA-interacting protein
UniProt Gene Name	RPAIN
UniProt Synonym Gene Names	RIP; hRIP
UniProt Entry Name	RIP_HUMAN
NCBI Protein Information	RPA-interacting protein
UniProt Comments for RPAIN	RPAIN: Mediates the import of RPA complex into the nucleus, possibly via some interaction with importin beta. Isoform 2 is sumoylated and mediates the localization of RPA complex into the PML body of the nucleus, thereby participating in RPA function in DNA metabolism. 7 isoforms of the human protein are produced by alternative splicing. Protein type: DNA repair, damage; DNA replication Chromosomal Location of Human Ortholog: 17p13.2 Cellular Component: nucleolus; nucleus Molecular Function: protein complex binding Biological Process: DNA recombination; DNA repair; DNA-dependent DNA replication; protein import into nucleus
Research Articles on RPAIN	**1.** hRIPalpha is involved in cell proliferation through regulation of RPA transport
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