RECQL5 Blocking Peptide – The purity is >90%,tested by HPLC and MS. Purity

PRODUCT OVERVIEW

Product Name	RECQL5, Blocking Peptide
Full Product Name	RECQL5 Blocking Peptide
Product Gene Name	RECQL5 blocking peptide
Product Synonym Gene Name	RECQ5
Product Synonym Names	ATP-dependent DNA helicase Q5; DNA helicase; DNA helicase; RecQ like type 5; DNA helicase; RECQ-like; type 5; EC 3.6.1.-; FLJ90603; RecQ helicase protein-like 5 beta; RecQ protein-like 5; RecQ protein-like 5; isoform CRA_b; RecQ-like type 5; RecQ5; RECQ5_HUMAN; Recq5b; RECQL5; Recql5b
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 10 mg/ml.
Purity/Purification	The purity is >90%,tested by HPLC and MS.
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	RECQL5 peptide (MBS9622367) is used for blocking the activity of RECQL5 antibody (MBS9612423)
Molecular Weight	991
OMIM	603781
Supply Chain Verification	Manufactured in a lab with traceable raw materials manufactured on site. Coordinated product portfolio of antibodies, pairs, conjugates, recombinant proteins, and immunoassay materials available, please inquire.
Notes	For phospho antibody, we provide phospho peptide (0.5mg) and non-phospho peptide (0.5mg)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for RECQL5 blocking peptide	Blocking/Control
Related Product Information for RECQL5 blocking peptide	Blocking peptides are peptides that bind specifically to the target antibody and block antibody binding. These peptide usually contains the epitope recognized by the antibody. Antibodies bound to the blocking peptide no longer bind to the epitope on the target protein. This mechanism is useful when non-specific binding is an issue, for example, in Western blotting (immunoblot) and immunohistochemistry (IHC). By comparing the staining from the blocked antibody versus the antibody alone, one can see which staining is specific; Specific binding will be absent from the western blot or immunostaining performed with the neutralized antibody.
Other Notes	Small volumes of RECQL5 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 RECQL5 purchase	MBS9622367 is a blocking peptide targeting RECQL5.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for RECQL5. It may not necessarily be applicable to this product.

NCBI GI #	22654276
NCBI GeneID	9400
NCBI Accession #	O94762.2

UniProt Primary Accession #	O94762
UniProt Secondary Accession #	Q9H0B1; Q9P1W7; Q9UNC8
UniProt Related Accession #	O94762
NCBI Official Full Name	ATP-dependent DNA helicase Q5
NCBI Official Synonym Full Names	RecQ protein-like 5
NCBI Official Symbol	RECQL5
NCBI Official Synonym Symbols	RECQ5
UniProt Protein Name	ATP-dependent DNA helicase Q5
UniProt Synonym Protein Names	DNA helicase, RecQ-like type 5; RecQ5; RecQ protein-like 5
Protein Family	ATP-dependent DNA helicase
UniProt Gene Name	RECQL5
UniProt Synonym Gene Names	RECQ5; RecQ5
UniProt Entry Name	RECQ5_HUMAN
NCBI Protein Information	ATP-dependent DNA helicase Q5; DNA helicase, RecQ-like type 5
NCBI Summary for RECQL5	The protein encoded by this gene is a helicase that is important for genome stability. The encoded protein also prevents aberrant homologous recombination by displacing RAD51 from ssDNA. Three transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2011]
UniProt Comments for RECQL5	RECQL5: May have an important role in DNA metabolism. Interacts with TOP3A and TOP3B. Ubiquitous. Belongs to the helicase family. RecQ subfamily. 3 isoforms of the human protein are produced by alternative splicing. Protein type: DNA repair, damage; EC 3.6.4.12; Helicase Chromosomal Location of Human Ortholog: 17q25 Cellular Component: nucleoplasm; nuclear membrane; cytoplasm; nucleolus; DNA-directed RNA polymerase II, holoenzyme; nucleus Molecular Function: DNA helicase activity; nucleic acid binding; ATP-dependent helicase activity; ATP binding Biological Process: mitosis; cell division; DNA replication; DNA repair; DNA metabolic process; chromosome separation; DNA duplex unwinding; DNA recombination
Research Articles on RECQL5	**1.** The data presented here provide evidence that RECQL5 plays a general role in the control of transcript elongation in human cells. In its absence, transcript elongation rates increase, the distribution profile of RNAPII is markedly altered across the genome, and higher levels of RNAPII pausing or arrest (i.e., transcription stress) are detected.
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