# RMI1 Blocking Peptide – The purity is >90%,tested by HPLC and MS. Purity

## PRODUCT OVERVIEW

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| **Product Name** | RMI1, Blocking Peptide |
| **Full Product Name** | RMI1 Blocking Peptide |
| **Product Gene Name** | RMI1 blocking peptide |
| **Product Synonym Names** | RMI1 Antibody - Internal; BLAP75; BLM associated polypeptide 75 kDa; BLM associated protein 75 kDa; BLM-associated protein of 75 kDa; C9orf76; FAAP75; FLJ12888; Homolog of yeast RecQ mediated genome instability 1; RecQ mediated genome instability 1; RecQ-mediated genome instability protein 1; Rmi1; RMI1 homolog; RMI1 RecQ mediated genome instability 1 homolog; RMI1_HUMAN; RP11-346I8; |
| **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** | RMI1 peptide (MBS9621428) is used for blocking the activity of RMI1 antibody (MBS9611475) |
| **Molecular Weight** | 625 |
| **OMIM** | 610404 |
| **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 RMI1 blocking peptide** | Blocking/Control |
| **Related Product Information for RMI1 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 RMI1 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 RMI1 purchase** | MBS9621428 is a blocking peptide targeting RMI1. |

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for RMI1. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 322510109 |
| **NCBI GeneID** | 80010 |
| **NCBI Accession #** | Q9H9A7.3 |
| **UniProt Primary Accession #** | Q9H9A7 |

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| **UniProt Secondary Accession #** | Q05BX1; Q05CW3; Q5SQG8; Q5SQG9; Q6P1Q4; Q6PI89; Q7Z6L6 |
| **UniProt Related Accession #** | Q9H9A7 |
| **NCBI Official Full Name** | RecQ-mediated genome instability protein 1 |
| **NCBI Official Synonym Full Names** | RecQ mediated genome instability 1 |
| **NCBI Official Symbol** | RMI1 |
| **NCBI Official Synonym Symbols** | BLAP75; FAAP75; C9orf76 |
| **UniProt Protein Name** | RecQ-mediated genome instability protein 1 |
| **UniProt Synonym Protein Names** | BLM-associated protein of 75 kDa; BLAP75; FAAP75 |
| **Protein Family** | RecQ-mediated genome instability protein |
| **UniProt Gene Name** | RMI1 |
| **UniProt Synonym Gene Names** | C9orf76; BLAP75 |
| **UniProt Entry Name** | RMI1_HUMAN |
| **NCBI Protein Information** | recQ-mediated genome instability protein 1; BLM-associated protein 75 kDa; BLM-associated polypeptide, 75 kDa; RMI1, RecQ mediated genome instability 1, homolog; homolog of yeast RecQ-mediated genome instability 1 (RMI1) |
| **NCBI Summary for RMI1** | RMI1 is a component of protein complexes that limit DNA crossover formation via the dissolution of double Holliday junctions (Raynard et al., 2006 [PubMed 16595695]).[supplied by OMIM, Mar 2008] |
| **UniProt Comments for RMI1** | RMI1: Essential component of the RMI complex, a complex that plays an important role in the processing of homologous recombination intermediates to limit DNA crossover formation in cells. Promotes TOP3A binding to double Holliday junctions (DHJ) and hence stimulates TOP3A-mediated dissolution. Required for BLM phosphorylation during mitosis. Within the BLM complex, required for BLM and TOP3A stability. Belongs to the RMI1 family.<br><br>Protein type: DNA repair, damage<br><br>Chromosomal Location of Human Ortholog: 9q21.32<br><br>Cellular Component: nucleoplasm; nucleus<br><br>Molecular Function: protein binding<br><br>Biological Process: multicellular organism growth; response to glucose stimulus; DNA replication; glucose homeostasis; reduction of food intake in response to dietary excess |
| **Research Articles on RMI1** | **1.** two proteins that interact with BLM, RMI1 and RMI2, are phosphorylated upon SAC activation, and, like BLM, RMI1, and RMI2, are phosphorylated in an MPS1-dependent manner. |
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