# MXD1 Blocking Peptide – The purity is >90%,tested by HPLC and MS. Purity

## PRODUCT OVERVIEW

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| **Product Name** | MXD1, Blocking Peptide |
| **Full Product Name** | MXD1 Blocking Peptide |
| **Product Gene Name** | MXD1 blocking peptide |
| **Product Synonym Names** | MAD; MAD protein; MAD1; MAD1_HUMAN; MAX dimerization protein 1; Max dimerizer 1; Mxd1; Protein MAD |
| **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** | MXD1 peptide (MBS9621369) is used for blocking the activity of MXD1 antibody (MBS9611416) |
| **Molecular Weight** | 25,254 Da |
| **Chromosome Location** | Chromosome: 2; NC_000002.11 (70142173..70170077). Location: 2p13-p12 |
| **OMIM** | 600021 |
| **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 MXD1 blocking peptide** | Blocking/Control |
| **Related Product Information for MXD1 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 MXD1 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 MXD1 purchase** | MBS9621369 is a blocking peptide targeting MXD1. |

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for MXD1. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 219518934 |
| **NCBI GeneID** | 4084 |
| **NCBI Accession #** | AAI43833.1 |
| **UniProt Primary Accession #** | Q05195 |
| **UniProt Secondary Accession #** | Q6FI41; B2R6V8; B7ZLI6; D6W5G2 |

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| **UniProt Related Accession #** | Q05195 |
| **NCBI Official Full Name** | MXD1 protein |
| **NCBI Official Synonym Full Names** | MAX dimerization protein 1 |
| **NCBI Official Symbol** | MXD1 |
| **NCBI Official Synonym Symbols** | MAD; MAD1; BHLHC58 |
| **UniProt Protein Name** | Max dimerization protein 1 |
| **UniProt Synonym Protein Names** | Protein MAD |
| **Protein Family** | Max dimerization protein |
| **UniProt Gene Name** | MXD1 |
| **UniProt Synonym Gene Names** | MAD; Max dimerizer 1 |
| **UniProt Entry Name** | MAD1_HUMAN |
| **NCBI Protein Information** | max dimerization protein 1; max dimerizer 1; MAX-binding protein; antagonizer of myc transcriptional activity |
| **NCBI Summary for MXD1** | This gene encodes a member of the MYC/MAX/MAD network of basic helix-loop-helix leucine zipper transcription factors. The MYC/MAX/MAD transcription factors mediate cellular proliferation, differentiation and apoptosis. The encoded protein antagonizes MYC-mediated transcriptional activation of target genes by competing for the binding partner MAX and recruiting repressor complexes containing histone deacetylases. Mutations in this gene may play a role in acute leukemia, and the encoded protein is a potential tumor suppressor. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Feb 2011] |
| **UniProt Comments for MXD1** | Mad1: Transcriptional repressor. MAD binds with MAX to form a sequence-specific DNA-binding protein complex which recognizes the core sequence 5'-CAC[GA]TG-3'. MAD thus antagonizes MYC transcriptional activity by competing for MAX. Efficient DNA binding requires dimerization with another bHLH protein. Binds DNA as a heterodimer with MAX. Interacts with RNF17. 2 isoforms of the human protein are produced by alternative splicing.<br><br>Protein type: DNA-binding; Transcription, coactivator/corepressor<br><br>Chromosomal Location of Human Ortholog: 2p13-p12<br><br>Cellular Component: nucleus<br><br>Molecular Function: protein dimerization activity; transcription cofactor activity; transcription corepressor activity; transcription factor activity<br><br>Biological Process: cell proliferation; transcription, DNA-dependent; multicellular organismal development; negative regulation of transcription from RNA polymerase II promoter |
| **Research Articles on MXD1** | **1.** Mad1 gene transfer inhibits the proliferation of human melanoma cells |
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| **Product Note** | Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details. |

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