MAGEA3 Blocking Peptide – The purity is >90%,tested by HPLC and MS. Purity

PRODUCT OVERVIEW

Product Name	MAGA3, Blocking Peptide
Full Product Name	MAGEA3 Blocking Peptide
Product Gene Name	MAGA3 blocking peptide
Product Synonym Gene Name	MAGEA3
Product Synonym Names	Antigen MZ2 D; Antigen MZ2-D; Cancer/testis antigen 1.3; Cancer/testis antigen family 1 member 3; CT1.3; HIP8; HYPD; MAGA3_HUMAN; MAGE 3 antigen; MAGE-3 antigen; MAGE3; MAGEA3; MAGEA6; Melanoma antigen family A 3; Melanoma associated antigen 3; Melanoma-associated antigen 3; MGC1461
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	MAGEA3 peptide (MBS9620366) is used for blocking the activity of MAGEA3 antibody (MBS9602889)
OMIM	300174
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 MAGA3 blocking peptide	Blocking/Control
Related Product Information for MAGA3 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 MAGA3 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 MAGA3 purchase	MBS9620366 is a blocking peptide targeting MAGA3. Also known as MAGEA3 Blocking Peptide.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for MAGA3. It may not necessarily be applicable to this product.

NCBI GI #	4885467
NCBI GeneID	4102
NCBI Accession #	NP_005353.1
UniProt Primary Accession #	P43357
UniProt Secondary Accession #	Q6FHI6

UniProt Related Accession #	P43357
GenBank Nucleotide #	NM_005362.3
NCBI Official Full Name	melanoma-associated antigen 3
NCBI Official Synonym Full Names	melanoma antigen family A3
NCBI Official Symbol	MAGEA3
NCBI Official Synonym Symbols	HIP8; HYPD; CT1.3; MAGE3; MAGEA6
UniProt Protein Name	Melanoma-associated antigen 3
UniProt Synonym Protein Names	Antigen MZ2-D; Cancer/testis antigen 1.3; CT1.3; MAGE-3 antigen
UniProt Gene Name	MAGEA3
UniProt Synonym Gene Names	MAGE3; CT1.3
UniProt Entry Name	MAGA3_HUMAN
NCBI Protein Information	melanoma-associated antigen 3; MAGE-3 antigen; antigen MZ2-D; cancer/testis antigen 1.3; cancer/testis antigen family 1, member 3; melanoma antigen family A, 3
NCBI Summary for MAGA3	This gene is a member of the MAGEA gene family. The members of this family encode proteins with 50 to 80% sequence identity to each other. The promoters and first exons of the MAGEA genes show considerable variability, suggesting that the existence of this gene family enables the same function to be expressed under different transcriptional controls. The MAGEA genes are clustered at chromosomal location Xq28. They have been implicated in some hereditary disorders, such as dyskeratosis congenita. [provided by RefSeq, Jul 2008]
UniProt Comments for MAGA3	MAGEA3: Proposed to enhance ubiquitin ligase activity of RING- type zinc finger-containing E3 ubiquitin-protein ligases. May enhance ubiquitin ligase activity of TRIM28 and stimulate p53/TP53 ubiquitination by TRIM28. Proposed to act through recruitment and/or stabilization of the Ubl-conjugating enzyme (E2) at the E3:substrate complex. May play a role in embryonal development and tumor transformation or aspects of tumor progression. In vitro promotes cell viability in melanoma cell lines. Antigen recognized on a melanoma by autologous cytolytic T-lymphocytes. Protein type: Cancer Testis Antigen (CTA) Chromosomal Location of Human Ortholog: Xq28 Molecular Function: protein binding
Research Articles on MAGA3	**1.** MAGE proteins bind to KAP1, a gene repressor and ubiquitin E3 ligase which also binds KRAB domain containing zinc finger transcription factors (KZNFs), and MAGE expression may affect KZNF mediated gene regulation.
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