DPPA2 Blocking Peptide – The purity is >90%,tested by HPLC and MS. Purity

PRODUCT OVERVIEW

Product Name	DPPA2, Blocking Peptide
Full Product Name	DPPA2 Blocking Peptide
Product Gene Name	DPPA2 blocking peptide
Product Synonym Names	DPPA2 Antibody - N-terminal; cancer/testis antigen 100; CT100; Developmental Pluripotency Associated 2; developmental pluripotency-associated gene 2; developmental pluripotency-associated protein 2; ECAT15-2; embryonic stem cell (ESC) associated transcript 15-2; PESCRG1; Pluripotent embryonic stem cell related protein 1; Pluripotent embryonic stem cell-related gene 1; Pluripotent embryonic stem cell-related gene 1 protein;
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	DPPA2 peptide (MBS9621664) is used for blocking the activity of DPPA2 antibody (MBS9611711)
Molecular Weight	33,784 Da
Chromosome Location	Chromosome: 3; NC_000003.11 (109012635..109035364, complement). Location: 3q13.13
OMIM	614445
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 DPPA2 blocking peptide	Blocking/Control
Related Product Information for DPPA2 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 DPPA2 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 DPPA2 purchase	MBS9621664 is a blocking peptide targeting DPPA2.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for DPPA2. It may not necessarily be applicable to this product.

NCBI GI #	239835767
NCBI GeneID	151871
NCBI Accession #	NP_620170.3

UniProt Primary Accession #	Q7Z7J5
UniProt Secondary Accession #	Q8WVF0
UniProt Related Accession #	Q7Z7J5
GenBank Nucleotide #	NP_620170.3
NCBI Official Full Name	developmental pluripotency-associated protein 2
NCBI Official Synonym Full Names	developmental pluripotency associated 2
NCBI Official Symbol	DPPA2
NCBI Official Synonym Symbols	CT100; PESCRG1; ECAT15-2
UniProt Protein Name	Developmental pluripotency-associated protein 2
UniProt Synonym Protein Names	Pluripotent embryonic stem cell-related gene 1 protein
Protein Family	Developmental pluripotency-associated protein
UniProt Gene Name	DPPA2
UniProt Synonym Gene Names	PESCRG1
UniProt Entry Name	DPPA2_HUMAN
NCBI Protein Information	developmental pluripotency-associated protein 2; cancer/testis antigen 100; embryonic stem cell (ESC) associated transcript 15-2; pluripotent embryonic stem cell-related gene 1 protein
UniProt Comments for DPPA2	Function: Binds to target gene promoters, including NKX2-5 and SYCE1, but not GATA4, and may be involved in the maintenance of the active epigenetic status of these genes By similarity. Subunit structure: Interacts with DPPA4 By similarity. Subcellular location: Nucleus Ref.1. Tissue specificity: Expressed in embryonic stem cells. No expression is seen in 5 months embryo, mesenchymal stem cells, embryonic fibrocytes and adult tissues. Ref.1 Sequence similarities: Contains 1 SAP domain.
Research Articles on DPPA2	**1.** Clinical trial of gene-disease association and gene-environment interaction. (HuGE Navigator)
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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Online datasheet: https://www.mybiosource.com/blocking-peptide/dppa2/9621664