PRDM14 Blocking Peptide (N-Term) Blocking Peptide

PRODUCT OVERVIEW

Product Name	PRDM14, Blocking Peptide
Full Product Name	PRDM14 Blocking Peptide (N-term)
Product Gene Name	PRDM14 blocking peptide
Product Synonym Names	PR domain zinc finger protein 14; 211-; PR domain-containing protein 14; PRDM14
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 1 mg/ml.
Specificity	The synthetic peptide sequence is selected from aa 128-143 of HUMAN PRDM14
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	PRDM14 peptide (MBS9229678) is used for blocking the activity of PRDM14 antibody (MBS9210837)
Molecular Weight	64,062 Da
OMIM	611781
Cellular Location	Nucleus.
Tissue Location	Expressed in embryonic stem cells. Tends to be overexpressed in breast cancer (at protein level)
Related Product Information for PRDM14 blocking peptide	Transcription factor that has both positive and negative roles on transcription. Required for the maintenance of emryonic stem cell identity and the reacquisition of pluripotency in somatic cells. May play an essential role in germ cell development at 2 levels: the reacquisition of potential pluripotency, including SOX2 up-regulation, and successful epigenetic reprogramming, characterized by EHMT1 repression (By similarity). Directly up-regulates the expression of pluripotency gene POU5F1 through its proximal enhancer. Binds to the DNA consensus sequence 5'-GGTC[TC]CTAA-3'.
Other Notes	Small volumes of PRDM14 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 PRDM14 purchase	MBS9229678 is a blocking peptide targeting PRDM14. Also known as PRDM14 Blocking Peptide (N-term).

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PRDM14. It may not necessarily be applicable to this product.

NCBI GI #	17368925
NCBI GeneID	63978
NCBI Accession #	Q9GZV8.1
UniProt Primary Accession #	Q9GZV8
UniProt Secondary Accession #	Q86UX9
UniProt Related Accession #	Q9GZV8
NCBI Official Full Name	PR domain zinc finger protein 14
NCBI Official Synonym Full Names	PR/SET domain 14
NCBI Official Symbol	PRDM14

NCBI Official Synonym Symbols	PFM11
UniProt Protein Name	PR domain zinc finger protein 14
UniProt Synonym Protein Names	PR domain-containing protein 14
Protein Family	PR domain zinc finger protein
UniProt Gene Name	PRDM14
UniProt Entry Name	PRD14_HUMAN
NCBI Protein Information	PR domain zinc finger protein 14
NCBI Summary for PRDM14	This gene encodes a member of the PRDI-BF1 and RIZ homology domain containing (PRDM) family of transcriptional regulators. The encoded protein may possess histone methyltransferase activity and plays a critical role in cell pluripotency by suppressing the expression of differentiation marker genes. Expression of this gene may play a role in breast cancer. [provided by RefSeq, Dec 2011]
UniProt Comments for PRDM14	PRDM14: a probable protein lysine methyltransferase that works in concert with the core human embryonic stem cell (ESC) regulators to control pluripotency associated genes. Binds to silenced genes in human ESCs. Its binding profile is enriched for the repressive tri-methylation of histone H3 lysine 27 (H3K27me3) modification. Interacts directly with the polycomb repressive complex 2 (PRC2). PRC2 is detected at PRDM14-bound loci in human ESCs. A probable transcriptional regulator of the krueppel C2H2-type zinc-finger protein family. Has both positive and negative roles on transcription. Required for the maintenance of emryonic stem cell identity and the reacquisition of pluripotency in somatic cells. May play an essential role in germ cell development at 2 levels: the reacquisition of potential pluripotency, including SOX2 up-regulation, and successful epigenetic reprogramming. Directly up-regulates the expression of pluripotency gene POU5F1 through its proximal enhancer. Binds to the DNA consensus sequence 5'-GGTC[TC]CTAA-3'. Protein type: C2H2-type zinc finger protein; Methyltransferase, protein arginine, predicted Chromosomal Location of Human Ortholog: 8q13.3 Cellular Component: nucleoplasm Molecular Function: protein binding Biological Process: somatic stem cell maintenance
Research Articles on PRDM14	**1.** In response to cytokines, pluripotent stem cells differentiate first into a heterogeneous mesoderm-like cell population and then into Primordial Germ cell-Like Cells, which exhibit minimal PRDM14 expression.
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