ZFP57 Antibody (Center) Blocking Peptide

PRODUCT OVERVIEW

Product Name	ZFP57, Blocking Peptide
Full Product Name	ZFP57 Antibody (Center) Blocking Peptide
Product Gene Name	ZFP57 blocking peptide
Product Synonym Gene Name	C6orf40; ZNF698
Product Synonym Names	Zinc finger protein 57 homolog; Zfp-57; Zinc finger protein 698; ZFP57; C6orf40; ZNF698
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.
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	ZFP57 peptide (MBS9223328) is used for blocking the activity of ZFP57 antibody (MBS9204785)
Molecular Weight	61,358 Da
OMIM	601410
Cellular Location	Nucleus. Note: Binds various differentially methylated regions (DMR), including the SNRPN DMR
Related Product Information for ZFP57 blocking peptide	Binds to a 5'-TGCCGC-3' consensus sequence and recognizes the methylated CpG within this element (By similarity). Transcription regulator required to maintain maternal and paternal gene imprinting, a process by which gene expression is restricted in a parent of origin-specific manner by epigenetic modification of genomic DNA and chromatin, including DNA methylation. Acts by controlling DNA methylation during the earliest multicellular stages of development at multiple imprinting control regions. Required for the establishment of maternal methylation imprints at SNRPN locus. Acts as a transcriptional repressor in Schwann cells.
Other Notes	Small volumes of ZFP57 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 ZFP57 purchase	MBS9223328 is a blocking peptide targeting ZFP57. Also known as ZFP57 Antibody (Center) Blocking Peptide.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ZFP57. It may not necessarily be applicable to this product.

NCBI GI #	150416327
NCBI GeneID	346171
NCBI Accession #	Q9NU63.2
UniProt Primary Accession #	Q9NU63
UniProt Secondary Accession #	Q5SSB1; B0S894; B0V254; B2RXJ7
UniProt Related Accession #	Q9NU63
NCBI Official Full Name	Zinc finger protein 57 homolog
NCBI Official Synonym Full Names	ZFP57 zinc finger protein
NCBI Official Symbol	ZFP57
NCBI Official Synonym Symbols	TNDM1; ZNF698; C6orf40; bA145L22; bA145L22.2

UniProt Protein Name	Zinc finger protein 57 homolog
UniProt Synonym Protein Names	Zinc finger protein 698
Protein Family	Zinc finger protein
UniProt Gene Name	ZFP57
UniProt Synonym Gene Names	C6orf40; ZNF698; Zfp-57
UniProt Entry Name	ZFP57_HUMAN
NCBI Protein Information	zinc finger protein 57 homolog
NCBI Summary for ZFP57	The protein encoded by this gene is a zinc finger protein containing a KRAB domain. Studies in mouse suggest that this protein may function as a transcriptional repressor. Mutations in this gene have been associated with transient neonatal diabetes mellitus type 1 (TNDM1).[provided by RefSeq, Sep 2009]
UniProt Comments for ZFP57	ZFP57: Transcription regulator required to maintain maternal and paternal gene imprinting, a process by which gene expression is restricted in a parent of origin-specific manner by epigenetic modification of genomic DNA and chromatin, including DNA methylation. Acts by controlling DNA methylation during the earliest multicellular stages of development at multiple imprinting control regions. Required for the establishment of maternal methylation imprints at SNRPN locus. Acts as a transcriptional repressor in Schwann cells. Defects in ZFP57 are the cause of transient neonatal diabetes mellitus type 1 (TNDM1). Neonatal diabetes is a form of diabetes mellitus defined by the onset of mild-to- severe hyperglycemia within the first months of life. In about half of the neonates, diabetes is transient and resolves at a median age of 3 months, whereas the rest have a permanent form of diabetes. The major cause of TNDM1 is aberrant expression of imprinted genes at chromosome 6q24, associated in 20% of cases with DNA hypomethylation at the transient neonatal diabetes differentially methylated region (DMR), which lies within the imprinted promoter of the PLAGL1 gene. Over 50% of individuals with transient neonatal diabetes and hypomethylation at 6q24 also show mosaic DNA hypomethylation at other imprinted loci throughout the genome and a range of additional clinical features. Belongs to the krueppel C2H2-type zinc-finger protein family. ZFP57 subfamily. 3 isoforms of the human protein are produced by alternative splicing. Protein type: Transcription factor; C2H2-type zinc finger protein Chromosomal Location of Human Ortholog: 6p22.1 Biological Process: DNA methylation during embryonic development; genetic imprinting Disease: Diabetes Mellitus, Transient Neonatal, 1
Research Articles on ZFP57	**1.** transient neonatal diabetes type 1 is associated with ZFP57 mutations
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