IKZF3 Blocking Peptide

PRODUCT OVERVIEW

Product Name	IKZF3, Blocking Peptide
Full Product Name	IKZF3 Peptide
Product Gene Name	IKZF3 blocking peptide
Product Synonym Gene Name	AIO; AIOLOS; ZNFN1A3
Form/Format	Lyophilized powder
Preparation and Storage	Add 100ul of sterile PBS. Final peptide concentration is 1 mg/ml in PBS. For longer periods of storage, store at -20 degree C. Avoid repeat freeze-thaw cycles.
Antibody/Peptide Pairs	IKZF3 peptide (MBS3229358) is used for blocking the activity of IKZF3 antibody (MBS3204391)
Molecular Weight	52kDa
OMIM	606221
Product Categories/Family for IKZF3 blocking peptide	Peptide
Applications Tested/Suitable for IKZF3 blocking peptide	Immunohistochemistry (IHC), Western Blot (WB)
Related Product Information for IKZF3 blocking peptide	This is a synthetic peptide designed for use in combination with anti-IKZF3 antibody made Target Description: IKZF3 is a member of the Ikaros family of zinc-finger proteins. It is a transcription factor that is important in the regulation of B lymphocyte proliferation and differentiation. Both Ikaros and Aiolos can participate in chromatin remodeling. Regulation of gene expression in B lymphocytes by Aiolos is complex as it appears to require the sequential formation of Ikaros homodimers, Ikaros/Aiolos heterodimers, and Aiolos homodimers.This gene encodes a member of the Ikaros family of zinc-finger proteins. Three members of this protein family (Ikaros, Aiolos and Helios) are hematopoetic-specific transcription factors involved in the regulation of lymphocyte development. This gene product is a transcription factor that is important in the regulation of B lymphocyte proliferation and differentiation. Both Ikaros and Aiolos can participate in chromatin remodeling. Regulation of gene expression in B lymphocytes by Aiolos is complex as it appears to require the sequential formation of Ikaros homodimers, Ikaros/Aiolos heterodimers, and Aiolos homodimers. At least six alternative transcripts encoding different isoforms have been described.
Other Notes	Small volumes of IKZF3 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 IKZF3 purchase	MBS3229358 is a blocking peptide targeting IKZF3. Also known as IKZF3 Peptide.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for IKZF3. It may not necessarily be applicable to this product.

NCBI GI #	383872639
NCBI GeneID	22806
NCBI Accession #	NP_899051
UniProt Primary Accession #	Q9UKT9
UniProt Related Accession #	Q9UKT9

GenBank Nucleotide #	NM_183228
NCBI Official Full Name	zinc finger protein Aiolos isoform 7
NCBI Official Synonym Full Names	IKAROS family zinc finger 3
NCBI Official Symbol	IKZF3
NCBI Official Synonym Symbols	AIO; AIOLOS; ZNFN1A3
UniProt Protein Name	Zinc finger protein Aiolos
UniProt Synonym Protein Names	Ikaros family zinc finger protein 3
Protein Family	Zinc finger protein
UniProt Gene Name	IKZF3
UniProt Synonym Gene Names	ZNFN1A3
UniProt Entry Name	IKZF3_HUMAN
NCBI Protein Information	zinc finger protein Aiolos
NCBI Summary for IKZF3	This gene encodes a member of the Ikaros family of zinc-finger proteins. Three members of this protein family (Ikaros, Aiolos and Helios) are hematopoietic-specific transcription factors involved in the regulation of lymphocyte development. This gene product is a transcription factor that is important in the regulation of B lymphocyte proliferation and differentiation. Both Ikaros and Aiolos can participate in chromatin remodeling. Regulation of gene expression in B lymphocytes by Aiolos is complex as it appears to require the sequential formation of Ikaros homodimers, Ikaros/Aiolos heterodimers, and Aiolos homodimers. Several alternative transcripts encoding different isoforms have been described, as well as some non-protein coding variants. [provided by RefSeq, Apr 2012]
UniProt Comments for IKZF3	Aiolos: a transcription factor of the ikaros C2H2-type zinc-finger protein family. Plays an important role in the regulation of lymphocyte differentiation. Deletions in Aiolos have been observed in a subset of pre-B-cell acute lymphoblastic leukemia (B-ALL) cases. 6 isoforms of the human protein are produced by alternative splicing. Protein type: Transcription factor; C2H2-type zinc finger protein; DNA-binding Chromosomal Location of Human Ortholog: 17q21 Cellular Component: cytoplasm; plasma membrane; nucleus Molecular Function: protein binding; protein homodimerization activity; protein heterodimerization activity; sequence-specific DNA binding; metal ion binding; transcription factor activity Biological Process: regulation of apoptosis; regulation of transcription from RNA polymerase II promoter; transcription, DNA-dependent; B cell activation; regulation of lymphocyte differentiation; regulation of B cell differentiation; regulation of B cell proliferation; mesoderm development
Research Articles on IKZF3	**1.** The minor alleles of rs2941522, rs907091, rs1453559, rs12150079 and rs2872507 were statistically associated with an increased risk in Graves' disease patients.
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