PAX3 Blocking Peptide

PRODUCT OVERVIEW

Product Name	PAX3, Blocking Peptide
Full Product Name	PAX3 Peptide
Product Gene Name	PAX3 blocking peptide
Product Synonym Gene Name	WS1; WS3; CDHS; HUP2
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	PAX3 peptide (MBS3226157) is used for blocking the activity of PAX3 antibody (MBS3201130)
Molecular Weight	53kDa
OMIM	phenotype 606597
Product Categories/Family for PAX3 blocking peptide	Peptide
Applications Tested/Suitable for PAX3 blocking peptide	Immunohistochemistry (IHC), Western Blot (WB)
Related Product Information for PAX3 blocking peptide	This is a synthetic peptide designed for use in combination with anti-PAX3 antibody made Target Description: PAX3 is a member of the paired box (PAX) family of transcription factors. Members of the PAX family typically contain a paired box domain and a paired-type homeodomain. These genes play critical roles during fetal development. Mutations in paired box gene 3 are associated with Waardenburg syndrome, craniofacial-deafness-hand syndrome, and alveolar rhabdomyosarcoma. The translocation t(2;13)(q35;q14), which represents a fusion between PAX3 and the forkhead gene, is a frequent finding in alveolar rhabdomyosarcoma.This gene is a member of the paired box (PAX) family of transcription factors. Members of the PAX family typically contain a paired box domain and a paired-type homeodomain. These genes play critical roles during fetal development. Mutations in paired box gene 3 are associated with Waardenburg syndrome, craniofacial-deafness-hand syndrome, and alveolar rhabdomyosarcoma. The translocation t(2;13)(q35;q14), which represents a fusion between PAX3 and the forkhead gene, is a frequent finding in alveolar rhabdomyosarcoma. Alternative splicing results in transcripts encoding isoforms with different C-termini.
Other Notes	Small volumes of PAX3 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 PAX3 purchase	MBS3226157 is a blocking peptide targeting PAX3. Also known as PAX3 Peptide.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PAX3. It may not necessarily be applicable to this product.

NCBI GI #	31563340
NCBI GeneID	5077
NCBI Accession #	NP_852122
UniProt Primary Accession #	P23760
UniProt Related Accession #	P23760

GenBank Nucleotide #	NM_181457
NCBI Official Full Name	paired box protein Pax-3 isoform PAX3
NCBI Official Synonym Full Names	paired box 3
NCBI Official Symbol	PAX3
NCBI Official Synonym Symbols	WS1; WS3; CDHS; HUP2
UniProt Protein Name	Paired box protein Pax-3
UniProt Synonym Protein Names	HuP2
Protein Family	Paired box protein
UniProt Gene Name	PAX3
UniProt Synonym Gene Names	HUP2
UniProt Entry Name	PAX3_HUMAN
NCBI Protein Information	paired box protein Pax-3
NCBI Summary for PAX3	This gene is a member of the paired box (PAX) family of transcription factors. Members of the PAX family typically contain a paired box domain and a paired-type homeodomain. These genes play critical roles during fetal development. Mutations in paired box gene 3 are associated with Waardenburg syndrome, craniofacial-deafness-hand syndrome, and alveolar rhabdomyosarcoma. The translocation t(2;13)(q35;q14), which represents a fusion between PAX3 and the forkhead gene, is a frequent finding in alveolar rhabdomyosarcoma. Alternative splicing results in transcripts encoding isoforms with different C-termini. [provided by RefSeq, Jul 2008]
UniProt Comments for PAX3	PAX3: Probable transcription factor associated with development of alveolar rhabdomyosarcoma. Can bind to DNA as a heterodimer with PAX7. Interacts with DAXX. Belongs to the paired homeobox family. 7 isoforms of the human protein are produced by alternative splicing. Protein type: Transcription factor; Oncoprotein; DNA-binding Chromosomal Location of Human Ortholog: 2q35 Cellular Component: nucleus Molecular Function: RNA polymerase II transcription factor activity, enhancer binding; protein binding; sequence-specific DNA binding; chromatin binding; transcription factor activity Biological Process: transcription from RNA polymerase II promoter; muscle development; apoptosis; heart development; positive regulation of transcription, DNA-dependent; pigmentation during development; neuron fate commitment; negative regulation of transcription from RNA polymerase II promoter; cell proliferation; organ morphogenesis; sensory perception of sound; positive regulation of cell proliferation; neural tube closure; spinal cord association neuron differentiation; positive regulation of transcription from RNA polymerase II promoter; regulation of somitogenesis; neural crest cell migration Disease: Waardenburg Syndrome, Type 3; Craniofacial-deafness-hand Syndrome; Rhabdomyosarcoma 2; Waardenburg Syndrome, Type 1
Research Articles on PAX3	**1.** In this review, we will discuss the current knowledge regarding potential therapeutic targets that might contribute to indirect interference with PAX3-FOXO1 activity in alveolar rhabdomyosarcoma at the different molecular levels and extrapolate these findings to fusion transcription factors in general.
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