NKX3-2 Blocking Peptide

PRODUCT OVERVIEW

Product Name	NKX3-2, Blocking Peptide
Full Product Name	NKX3-2 Blocking Peptide
Product Gene Name	NKX3-2 blocking peptide
Product Synonym Names	Bagpipe homeobox 1; Bagpipe homeobox homolog 1; Bagpipe homeobox protein homolog 1; Bagpipe homeobox, Drosophila, homolog of, 1; BAPX 1; Homeobox protein NK-3 homolog B; Homeobox protein Nkx 3.2; Homeobox protein Nkx-3.2; MGC138171; NK3 homeobox 2; NKX3 2
Antibody/Peptide Pairs	NKX3-2 peptide (MBS9632409) is used for blocking the activity of NKX3-2 antibody (MBS9630026)
Molecular Weight	34,814 Da
OMIM	gene 613330
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.
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for NKX3-2 blocking peptide	MBS9632409 is a blocking peptide targeting NKX3-2.
Other Notes	Small volumes of NKX3-2 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.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for NKX3-2. It may not necessarily be applicable to this product.

NCBI GI #	4502365
NCBI GeneID	579
NCBI Accession #	NP_001180
UniProt Primary Accession #	P78367
UniProt Secondary Accession #	Q2M2I7
UniProt Related Accession #	P78367
GenBank Nucleotide #	NM_001189.3
NCBI Official Full Name	homeobox protein Nkx-3.2
NCBI Official Synonym Full Names	NK3 homeobox 2
NCBI Official Symbol	NKX3-2
NCBI Official Synonym Symbols	SMMD; BAPX1; NKX3B; NKX3.2
UniProt Protein Name	Homeobox protein Nkx-3.2
UniProt Synonym Protein Names	Bagpipe homeobox protein homolog 1; Homeobox protein NK-3 homolog B
Protein Family	Homeobox protein

UniProt Gene Name	NKX3-2
UniProt Synonym Gene Names	BAPX1; NKX3B
UniProt Entry Name	NKX32_HUMAN
NCBI Protein Information	homeobox protein Nkx-3.2; homeobox protein NK-3 homolog B; bagpipe homeobox protein homolog 1
NCBI Summary for NKX3-2	This gene encodes a member of the NK family of homeobox-containing proteins. The encoded protein may play a role in skeletal development. [provided by RefSeq, Jul 2008]
UniProt Comments for NKX3-2	NKX3-2: Transcriptional repressor that acts as a negative regulator of chondrocyte maturation. PLays a role in distal stomach development; required for proper antral-pyloric morphogenesis and development of antral-type epithelium. In concert with GSC, defines the structural components of the middle ear; required for tympanic ring and gonium development and in the regulation of the width of the malleus. Defects in NKX3-2 are the cause of spondylo-megaepiphyseal-metaphyseal dysplasia (SMMD). It is a skeletal dysplasia characterized by disproportionate short stature with a short and stiff neck and trunk, relatively long limbs that may show flexion contractures of the distal joints, delayed and impaired ossification of the vertebral bodies, the presence of large epiphysea ossification centers and wide growth plates in the long tubular bones and numerous pseudoepiphyses of the short tubular bones in hands and feet. Belongs to the NK-3 homeobox family. Protein type: Cell development/differentiation; Transcription factor; DNA-binding Chromosomal Location of Human Ortholog: 4p16.3 Cellular Component: nucleus Biological Process: transcription from RNA polymerase II promoter; spleen development; organ formation; skeletal morphogenesis; embryonic skeletal development; negative regulation of chondrocyte differentiation; pancreas development; middle ear morphogenesis; negative regulation of transcription from RNA polymerase II promoter; determination of left/right symmetry; skeletal development; negative regulation of apoptosis Disease: Spondylo-megaepiphyseal-metaphyseal Dysplasia
Research Articles on NKX3-2	**1.** Ihh-induced Nkx3.2 degradation requires Wnt5a, which is capable of triggering Nkx3.2 degradation
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