IRX5 Antibody (C-Term) Blocking Peptide

PRODUCT OVERVIEW

Product Name	IRX5, Blocking Peptide
Full Product Name	IRX5 Antibody (C-term) Blocking Peptide
Product Gene Name	IRX5 blocking peptide
Product Synonym Gene Name	IRX2A; IRXB2
Product Synonym Names	Iroquois-class homeodomain protein IRX-5; Homeodomain protein IRX-2A; Homeodomain protein IRXB2; Iroquois homeobox protein 5; IRX5; IRX2A; IRXB2
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	IRX5 peptide (MBS9221890) is used for blocking the activity of IRX5 antibody (MBS9208541)
Molecular Weight	43,693 Da
OMIM	606195
Cellular Location	Nucleus.
Related Product Information for IRX5 blocking peptide	Establishes the cardiac repolarization gradient by its repressive actions on the KCND2 potassium-channel gene. Required for retinal cone bipolar cell differentiation. May regulate contrast adaptation in the retina and control specific aspects of visual function in circuits of the mammalian retina (By similarity). Could be involved in the regulation of both the cell cycle and apoptosis in prostate cancer cells. Involved in craniofacial and gonadal development. Modulates the migration of progenitor cell populations in branchial arches and gonads by repressing CXCL12.
Other Notes	Small volumes of IRX5 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 IRX5 purchase	MBS9221890 is a blocking peptide targeting IRX5. Also known as IRX5 Antibody (C-term) Blocking Peptide.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for IRX5. It may not necessarily be applicable to this product.

NCBI GI #	143811406
NCBI GeneID	10265
NCBI Accession #	P78411.3
UniProt Primary Accession #	P78411
UniProt Secondary Accession #	P78416; Q7Z2E1; H0YMS7
UniProt Related Accession #	P78411
NCBI Official Full Name	Iroquois-class homeodomain protein IRX-5
NCBI Official Synonym Full Names	iroquois homeobox 5
NCBI Official Symbol	IRX5
NCBI Official Synonym Symbols	HMMS; IRXB2; IRX-2a

UniProt Protein Name	Iroquois-class homeodomain protein IRX-5
UniProt Synonym Protein Names	Homeodomain protein IRX-2A; Homeodomain protein IRXB2; Iroquois homeobox protein 5
Protein Family	Iroquois-class homeodomain protein
UniProt Gene Name	IRX5
UniProt Synonym Gene Names	IRX2A; IRXB2
UniProt Entry Name	IRX5_HUMAN
NCBI Protein Information	iroquois-class homeodomain protein IRX-5
NCBI Summary for IRX5	This gene encodes a member of the iroquois homeobox gene family, which are involved in several embryonic developmental processes. Knockout mice lacking this gene show that it is required for retinal cone bipolar cell differentiation, and that it negatively regulates potassium channel gene expression in the heart to ensure coordinated cardiac repolarization. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Nov 2011]
UniProt Comments for IRX5	IRX5: Establishes the cardiac repolarization gradient by its repressive actions on the KCND2 potassium-channel gene. Required for retinal cone bipolar cell differentiation. May regulate contrast adaptation in the retina and control specific aspects of visual function in circuits of the mammalian retina. Could be involved in the regulation of both the cell cycle and apoptosis in prostate cancer cells. Involved in craniofacial and gonadal development. Modulates the migration of progenitor cell populations in branchial arches and gonads by repressing CXCL12. Defects in IRX5 are the cause of Hamamy syndrome (HMMS). A sydrome characterized by severe hypertelorism, upslanting palpebral fissures, brachycephaly, abnormal ears, sloping shoulders, enamel hypoplasia, and osteopenia with repeated fractures. Additional features include myopia, mild to moderate sensorineural hearing loss, gonadal anomalies, and borderline intelligence. Belongs to the TALE/IRO homeobox family. Protein type: DNA-binding Chromosomal Location of Human Ortholog: 16q12.2 Biological Process: embryonic cranial skeleton morphogenesis; gonad development Disease: Hamamy Syndrome
Research Articles on IRX5	**1.** Our findings suggest that IRX proteins integrate combinatorial transcriptional inputs to regulate key signaling molecules involved in the ontogeny of multiple organs during embryogenesis and homeostasis.
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