PRRX1 Antibody(c-Term) Blocking Peptide

PRODUCT OVERVIEW

Product Name	PRRX1, Blocking Peptide
Full Product Name	PRRX1 Antibody(C-term) Blocking peptide
Product Gene Name	PRRX1 blocking peptide
Product Synonym Gene Name	PMX1
Product Synonym Names	Paired mesoderm homeobox protein 1; Homeobox protein PHOX1; Paired-related homeobox protein 1; PRX-1; PRRX1; PMX1
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	PRRX1 peptide (MBS9224293) is used for blocking the activity of PRRX1 antibody (MBS9201366)
Molecular Weight	24,396 Da
OMIM	167420
Cellular Location	Nucleus.
Related Product Information for PRRX1 blocking peptide	Acts as a transcriptional regulator of muscle creatine kinase (MCK) and so has a role in the establishment of diverse mesodermal muscle types. The protein binds to an A/T-rich element in the muscle creatine enhancer (By similarity).
Other Notes	Small volumes of PRRX1 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 PRRX1 purchase	MBS9224293 is a blocking peptide targeting PRRX1. Also known as PRRX1 Antibody(C-term) Blocking peptide.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PRRX1. It may not necessarily be applicable to this product.

NCBI GI #	6174916
NCBI GeneID	5396
NCBI Accession #	P54821.2
UniProt Primary Accession #	P54821
UniProt Secondary Accession #	O60807; B5BUM7
UniProt Related Accession #	P54821
NCBI Official Full Name	Paired mesoderm homeobox protein 1
NCBI Official Synonym Full Names	paired related homeobox 1
NCBI Official Symbol	PRRX1
NCBI Official Synonym Symbols	PMX1; PRX1; AGOTC; PHOX1; PRX-1
UniProt Protein Name	Paired mesoderm homeobox protein 1
UniProt Synonym Protein Names	Homeobox protein PHOX1; Paired-related homeobox protein 1; PRX-1

Protein Family	Paired mesoderm homeobox protein
UniProt Gene Name	PRRX1
UniProt Synonym Gene Names	PMX1; PRX-1
UniProt Entry Name	PRRX1_HUMAN
NCBI Protein Information	paired mesoderm homeobox protein 1
NCBI Summary for PRRX1	The DNA-associated protein encoded by this gene is a member of the paired family of homeobox proteins localized to the nucleus. The protein functions as a transcription co-activator, enhancing the DNA-binding activity of serum response factor, a protein required for the induction of genes by growth and differentiation factors. The protein regulates muscle creatine kinase, indicating a role in the establishment of diverse mesodermal muscle types. Alternative splicing yields two isoforms that differ in abundance and expression patterns. [provided by RefSeq, Jul 2008]
UniProt Comments for PRRX1	PRRX1: Acts as a transcriptional regulator of muscle creatine kinase (MCK) and so has a role in the establishment of diverse mesodermal muscle types. The protein binds to an A/T-rich element in the muscle creatine enhancer. Defects in PRRX1 are the cause of agnathia-otocephaly complex (AGOTC). AGOTC is a rare condition characterized by mandibular hypoplasia or agnathia, ventromedial auricular malposition (melotia) and/or auricular fusion (synotia), and microstomia with oroglossal hypoplasia or aglossia. Holoprosencephaly is the most commonly identified association, but skeletal, genitourinary, and cardiovascular anomalies, and situs inversus have been reported. The disorder is almost always lethal. Belongs to the paired homeobox family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: DNA-binding Chromosomal Location of Human Ortholog: 1q24 Cellular Component: nucleolus; nucleus Molecular Function: transcription coactivator activity Disease: Agnathia-otocephaly Complex
Research Articles on PRRX1	**1.** the switch from Prrx1b to Prrx1a governs EMT plasticity in both mouse models of PDAC and human PDAC
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