

PRRX1 Antibody(C-term) Blocking peptide
Synthetic peptide
Catalog # BP19418b**Specification**

PRRX1 Antibody(C-term) Blocking peptide - Product InformationPrimary Accession [P54821](#)**PRRX1 Antibody(C-term) Blocking peptide - Additional Information****Gene ID** 5396**Other Names**

Paired mesoderm homeobox protein 1, Homeobox protein PHOX1, Paired-related homeobox protein 1, PRX-1, PRRX1, PMX1

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

PRRX1 Antibody(C-term) Blocking peptide - Protein Information**Name** PRRX1**Synonyms** PMX1**Function**

Master transcription factor of stromal fibroblasts for myofibroblastic lineage progression. Orchestrates the functional drift of fibroblasts into myofibroblastic phenotype via TGF-beta signaling by remodeling a super-enhancer landscape. Through this function, plays an essential role in wound healing process (PubMed:35589735). 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). May play a role in homeostasis and regeneration of bone, white adipose tissue and derm (By similarity).

Cellular Location

Nucleus {ECO:0000250|UniProtKB:P63013}.

Tissue Location

[Isoform 1]: Widely expressed in embryonic and adult tissues, with highest levels in skeletal muscle. Isoform 1 is either expressed at similar or higher levels compared to isoform 2 in all

embryonic tissues but skeletal muscle and heart. In adult tissues, expressed at lower levels compared to isoform 2

PRRX1 Antibody(C-term) Blocking peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

PRRX1 Antibody(C-term) Blocking peptide - Images

PRRX1 Antibody(C-term) Blocking peptide - Background

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].

PRRX1 Antibody(C-term) Blocking peptide - References

Jugessur, A., et al. PLoS ONE 5 (7), E11493 (2010) ; Hirose, K., et al. Oncogene 27(46):6056-6067(2008) ; Vieira, A.R., et al. Genet. Med. 10(9):668-674(2008) ; Jiang, F., et al. Exp. Biol. Med. (Maywood) 233(3):286-296(2008) ; Kim, Y.J., et al. Cancer Res. 67(2):546-554(2007)