

PRRX1 Antibody

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP51452

Product Information

Application WB Primary Accession P54821

Reactivity Human, Mouse, Rat

HostRabbitClonalityPolyclonalCalculated MW27296

Additional Information

Gene ID 5396

Other Names Paired mesoderm homeobox protein 1, Homeobox protein PHOX1,

Paired-related homeobox protein 1, PRX-1, PRRX1, PMX1

Target/Specificity KLH-conjugated synthetic peptide encompassing a sequence within the center

region of human PRRX1. The exact sequence is proprietary.

Dilution WB~~1:1000

Format 0.01M PBS, pH 7.2, 0.09% (W/V) Sodium azide, Glycerol 50%

Storage Store at -20 °C.Stable for 12 months from date of receipt

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

Background

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).

References

Goshima N.,et al.Nat. Methods 5:1011-1017(2008). Gregory S.G.,et al.Nature 441:315-321(2006). Grueneberg D.A.,et al.Science 257:1089-1095(1992). Sergi C.,et al.Clin. Genet. 79:293-295(2011).

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