

**PRX-1 / PRRX1 Antibody (Internal)**  
**Goat Polyclonal Antibody**  
**Catalog # ALS12236****Specification**

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**PRX-1 / PRRX1 Antibody (Internal) - Product Information**

Application	WB
Primary Accession	<a href="#">P54821</a>
Reactivity	Human, Mouse, Rat, Rabbit, Hamster, Pig, Chicken, Horse, Bovine, Dog
Host	Goat
Clonality	Polyclonal
Calculated MW	27kDa KDa

**PRX-1 / PRRX1 Antibody (Internal) - 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**

Human PRRX1. This antibody is expected to recognise both reported isoforms (NP\_008833.1; NP\_073207.1).

**Reconstitution & Storage**

Store at -20°C. Minimize freezing and thawing.

**Precautions**

PRX-1 / PRRX1 Antibody (Internal) is for research use only and not for use in diagnostic or therapeutic procedures.

**PRX-1 / PRRX1 Antibody (Internal) - 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:<a href="http://www.uniprot.org/citations/35589735" target="\_blank">35589735</a>). 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

**PRX-1 / PRRX1 Antibody (Internal) - Protocols**

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**PRX-1 / PRRX1 Antibody (Internal) - Images**

Antibody (1 ug/ml) staining of Human Heart lysate (35 ug protein in RIPA buffer).

**PRX-1 / PRRX1 Antibody (Internal) - 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).

**PRX-1 / PRRX1 Antibody (Internal) - 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).