

PRX-1 / PRRX1 Antibody (Internal)

Goat Polyclonal Antibody Catalog # ALS12236

Specification

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

Application WB
Primary Accession P54821

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: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

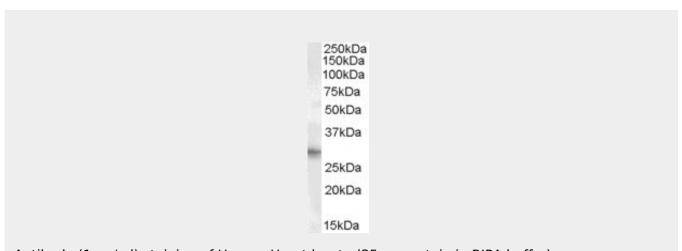
[Isoform 1]: Widely expressed in embryonic and adult tissues, with highest levels in skeletal muscle. Isoform 1 is either expressed at similar or higher levels compared to isoform 2 in all embryonic tissues but skeletal muscle and heart. In adult tissues, expressed at lower levels compared to isoform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

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 Cytomety
- 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).