

PRRX2 Antibody (monoclonal) (M01)**Mouse monoclonal antibody raised against a partial recombinant PRRX2.****Catalog # AT3445a****Specification**

PRRX2 Antibody (monoclonal) (M01) - Product Information

Application	WB, E
Primary Accession	O99811
Other Accession	NM_016307
Reactivity	Human
Host	mouse
Clonality	Monoclonal
Isotype	IgG2b Kappa
Calculated MW	27079

PRRX2 Antibody (monoclonal) (M01) - Additional Information**Gene ID** 51450**Other Names**

Paired mesoderm homeobox protein 2, Paired-related homeobox protein 2, PRX-2, PRRX2, PMX2, PRX2

Target/Specificity

PRRX2 (NP_057391.1, 151 a.a. ~ 253 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

Dilution

WB~~1:500~1000

Format

Clear, colorless solution in phosphate buffered saline, pH 7.2 .

Storage

Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Precautions

PRRX2 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

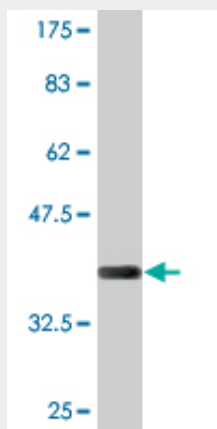
PRRX2 Antibody (monoclonal) (M01) - Protocols

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

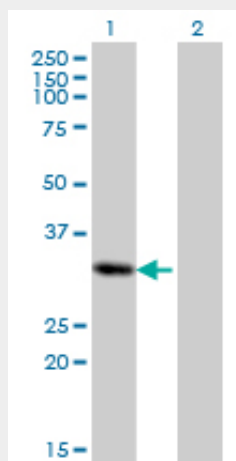
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)

- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

PRRX2 Antibody (monoclonal) (M01) - Images



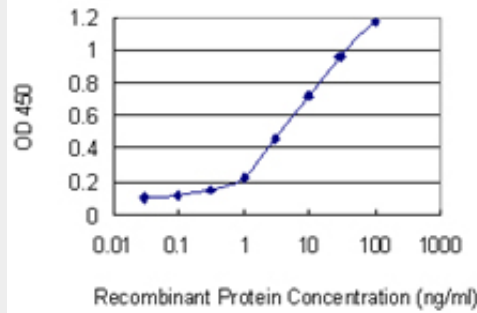
Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (37.07 kDa) .



Western Blot analysis of PRRX2 expression in transfected 293T cell line by PRRX2 monoclonal antibody (M01), clone 4C9.

Lane 1: PRRX2 transfected lysate (27.1 kDa).

Lane 2: Non-transfected lysate.



Detection limit for recombinant GST tagged PRRX2 is 0.1 ng/ml as a capture antibody.

PRRX2 Antibody (monoclonal) (M01) - Background

The DNA-associated protein encoded by this gene is a member of the paired family of homeobox proteins. Expression is localized to proliferating fetal fibroblasts and the developing dermal layer, with downregulated expression in adult skin. Increases in expression of this gene during fetal but not adult wound healing suggest a possible role in mechanisms that control mammalian dermal regeneration and prevent formation of scar response to wounding. The expression patterns provide evidence consistent with a role in fetal skin development and a possible role in cellular proliferation.

PRRX2 Antibody (monoclonal) (M01) - References

Maternal genes and facial clefts in offspring: a comprehensive search for genetic associations in two population-based cleft studies from Scandinavia. Jugessur A, et al. PLoS One, 2010 Jul 9. PMID 20634891. Oxidation of Prx2 and phosphorylation of GRP58 by angiotensin II in human coronary smooth muscle cells identified by 2D-DIGE analysis. Tokutomi Y, et al. Biochem Biophys Res Commun, 2007 Dec 28. PMID 17964282. The high-mobility-group domain of Sox proteins interacts with DNA-binding domains of many transcription factors. Wissmüller S, et al. Nucleic Acids Res, 2006. PMID 16582099. A new translocation t(9;11)(q34;p15) fuses NUP98 to a novel homeobox partner gene, PRRX2, in a therapy-related acute myeloid leukemia. Gervais C, et al. Leukemia, 2005 Jan. PMID 15496970. The status, quality, and expansion of the NIH full-length cDNA project: the Mammalian Gene Collection (MGC). Gerhard DS, et al. Genome Res, 2004 Oct. PMID 15489334.