

Product Datasheet

PRRX1 Antibody NBP1-06067

Unit Size: 0.1 mg

Store at -20C. Avoid freeze-thaw cycles.

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technical@novusbio.com

Publications: 8

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NBP1-06067

PRRX1 Antibody

Product Information	
Unit Size	0.1 mg
Concentration	0.5 mg/ml
Storage	Store at -20C. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.02% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	Tris saline (20 mM Tris pH 7.3, 150 mM NaCl), 0.5% BSA

Product Description	
Description	Novus Biologicals Goat PRRX1 Antibody (NBP1-06067) is a polyclonal antibody validated for use in IHC, WB, ELISA and ICC/IF. Anti-PRRX1 Antibody: Cited in 8 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Goat
Gene ID	5396
Gene Symbol	PRRX1
Species	Human, Mouse
Reactivity Notes	Mouse reactivity reported in scientific literature (PMID: 23355395).
Specificity/Sensitivity	This antibody is expected to recognise both reported isoforms (NP_008833.1; NP_073207.1).
Immunogen	Peptide with sequence C-GSDTPQQDNDQ corresponding to internal region according to NP_008833.1, NP_073207.1.

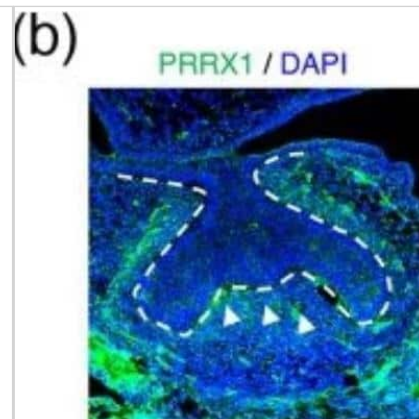
Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, Immunocytochemistry/Immunofluorescence, Immunohistochemistry, Peptide ELISA
Recommended Dilutions	Western Blot 1 - 2 ug/mL, Immunohistochemistry 5 ug/mL, Immunocytochemistry/ Immunofluorescence 1:10 - 1:500, Immunohistochemistry-Paraffin 5 ug/mL, Peptide ELISA 1:2000
Application Notes	Use in IHC-P and ICC/IF reported in scientific literature (PMID: 23355395).

Images

Western Blot: PRRX1 Antibody [NBP1-06067] - Staining of Mouse Heart lysate (35 ug protein in RIPA buffer). Antibody at 1 ug/mL. Detected by chemiluminescence.

250kDa
150kDa
100kDa
75kDa
50kDa
37kDa
25kDa
20kDa
15kDa

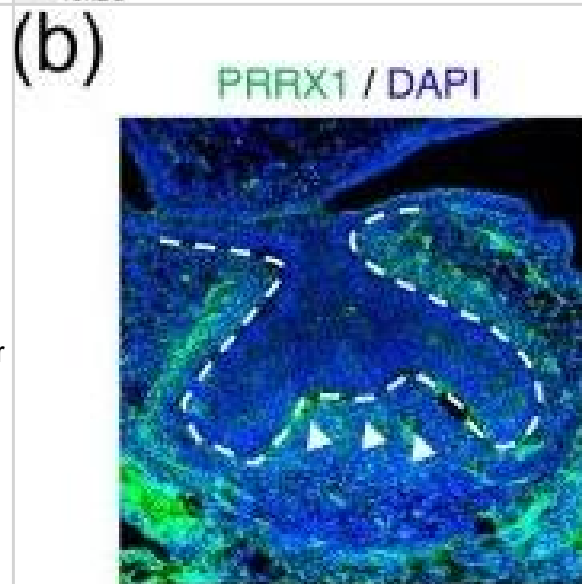
Immunohistochemistry: PRRX1 Antibody [NBP1-06067] - PRRX1 and PRRX2 bind to mir875 promoter region. Immunohistochemistry image showing PRRX1 (green) and DAPI staining of nuclei (blue) in E14 tooth germ. Image collected and cropped by CiteAb from the following publication (<https://www.nature.com/articles/s41598-020-61693-w>) licensed under a CC-BY license.



Western Blot: PRRX1 Antibody [NBP1-06067] - Staining of LNCaP cell lysate (35 ug protein in RIPA buffer). Antibody at 2 ug/mL. Detected by chemiluminescence.

250kDa
150kDa
100kDa
75kDa
50kDa
37kDa
25kDa
20kDa
15kDa

Immunocytochemistry/ Immunofluorescence: PRRX1 Antibody [NBP1-06067] - PRRX1 & PRRX2 bind to mir875 promoter region. (a) Diagram of mir875 promoter region. The CAGE peak accurately represents TSS. (b) Immunohistochemistry image showing PRRX1 (green) & DAPI staining of nuclei (blue) in E14 tooth germ. (c) qRT-PCR analysis of Prrx1 & Prrx2 expressions in teeth obtained from E13 to P7 after normalization to Gapdh expression. (d) Schematic diagram showing luciferase reporter vector of mir875 promoter. PRRX1/2 binding was shown to occur in the mir875 promoter region. TAATTA is a potential binding site for PRRX1/2. (e) Mir875 promoter reporter activities were evaluated in mDP cells transfected with a Prrx1/2 expression vector after 12, 24, & 48 hours of culture. (f) qRT-PCR analysis of miR875-5p expression in mDP cells cultured with or without Prrx1/2 transfection. (g) Sequences of mir875 promoter & mutant promoter. TAATTA was replaced by the TCCCCA sequence. (h) Mir875 promoter reporter activities were evaluated in mDP cells after transfection with a Prrx1 or Prrx2 expression vector. *P < 0.05. Error bars represent the mean \pm S.D. Image collected & cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/32188878>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Publications

Tanabe R, Miyazono K, Todo T et al. PRRX1 induced by BMP signaling decreases tumorigenesis by epigenetically regulating glioma-initiating cell properties via DNA methyltransferase 3A Molecular Oncology 2022-01-01 [PMID: 34214250] (Immunohistochemistry-Paraffin, Mouse)

Subha Sankar Paul, Som Mohanlal Patwa, Yee-Joo Tan Development of monoclonal antibodies to target the large surface protein of hepatitis B virus and their use in therapeutic and diagnostic applications. Journal of viral hepatitis 2023-10-23 [PMID: 37525419]

Wang T, Wagner RT, Hlady RA et al. SETD2 loss in renal epithelial cells drives epithelial-to-mesenchymal transition in a TGF- β -independent manner Molecular oncology 2023-07-07 [PMID: 37418588] (WB, Human)

Marchini M, Ashkin MR, Bellini M Et al. A Na(+)/K(+) ATPase Pump Regulates Chondrocyte Differentiation and Bone Length Variation in Mice Front Cell Dev Biol 2021-12-31 [PMID: 34970538] (IF/IHC, Mouse)

Details:

Citation using the HRP version of this antibody.

Reichert M, Takano S, Burstin J et al. The Prrx1 Homeodomain Transcription Factor Plays a Central Role in Pancreatic Regeneration and Carcinogenesis Genes Dev. 2013-02-01 [PMID: 23355395] (IHC-P, Mouse)

Fan M, Shen J, Liu H et al. Downregulation of PRRX1 via the p53-dependent Signaling Pathway Predicts Poor Prognosis in Hepatocellular Carcinoma Oncol Rep. 2017-08-01 [PMID: 28677793] (WB, Human)

Funada K, Yoshizaki K, Miyazaki K et Al. microRNA-875-5p plays critical role for mesenchymal condensation in epithelial-mesenchymal interaction during tooth development Sci Rep 2020-03-18 [PMID: 32188878] (IF/IHC, Mouse)

Kim YJ, Ahn JY, Liang P et al. Human prx1 gene is a target of Nrf2 and is up-regulated by hypoxia/reoxygenation: implication to tumor biology. Cancer Res 2007 Jan 15 [PMID: 17234762]





Novus Biologicals USA

10730 E. Briarwood Avenue
Centennial, CO 80112
USA
Phone: 303.730.1950
Toll Free: 1.888.506.6887
Fax: 303.730.1966
nb-customerservice@bio-techne.com

Bio-Techne Canada

21 Canmotor Ave
Toronto, ON M8Z 4E6
Canada
Phone: 905.827.6400
Toll Free: 855.668.8722
Fax: 905.827.6402
canada.inquires@bio-techne.com

Bio-Techne Ltd

19 Barton Lane
Abingdon Science Park
Abingdon, OX14 3NB, United Kingdom
Phone: (44) (0) 1235 529449
Free Phone: 0800 37 34 15
Fax: (44) (0) 1235 533420
info.EMEA@bio-techne.com

General Contact Information

www.novusbio.com
Technical Support: nb-technical@bio-techne.com
Orders: nb-customerservice@bio-techne.com
General: novus@novusbio.com

Products Related to NBP1-06067

NBL1-14840	PRRX1 Overexpression Lysate
NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF017	Rabbit anti-Goat IgG Secondary Antibody [HRP (Horseradish Peroxidase)]
HAF109	Donkey anti-Goat IgG Secondary Antibody [HRP (Horseradish Peroxidase)]
NB410-28088-1mg	Goat IgG Isotype Control

Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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