

# Product Datasheet

## PTH1R/PTHR1 Antibody (3D1.1) - BSA Free NBP1-40067

Unit Size: 0.05 mg

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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**NBP1-40067**

PTH1R/PTHR1 Antibody (3D1.1) - BSA Free

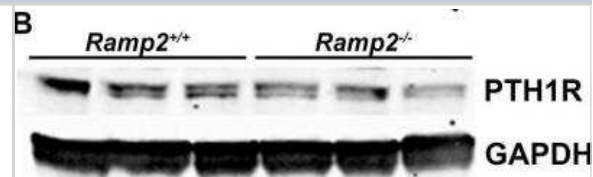
Product Information	
Unit Size	0.05 mg
Concentration	1.0 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	3D1.1
Preservative	0.05% Sodium Azide
Isotype	IgG1 Kappa
Purity	Protein G purified
Buffer	0.1 M Tris-Glycine, pH 7.4, 0.15 M NaCl, 30% Glycerol

Product Description	
Host	Mouse
Gene ID	5745
Gene Symbol	PTH1R
Species	Human, Mouse, Porcine, Bovine, Canine, Equine, Primate, Monkey
Reactivity Notes	Mouse reactivity reported in scientific literature (PMID: 28727763). Predicted cross-reactivity based on sequence identity: Gorilla (100%), Gibbon (100%), Marmoset (100%), Xenopus (88%).
Specificity/Sensitivity	Recognizes human PTH/PTHrP receptor, MW 80kD, and the receptor dimer, Mr 160kD. A faint nonspecific band at 110kD is also detected. This antibody does not detect the PTH2 receptor.
Immunogen	Synthetic peptide corresponding to aa146-169 of human PTH1R/PTHR1 [RRCDRNGSWELVPGHNRTWANYSE]. Species sequence Homology: Mouse & rat (23/24aa).

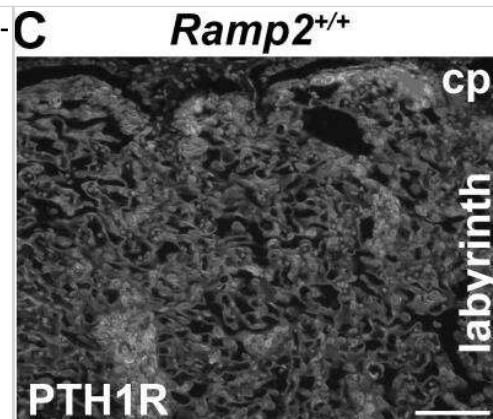
Product Application Details	
Applications	Western Blot, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin
Recommended Dilutions	Western Blot 0.5-2 ug/ml, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry-Paraffin 5 ug/ml
Application Notes	Use in ICC/IF reported in scientific literature (PMID 28727763)..

**Images**

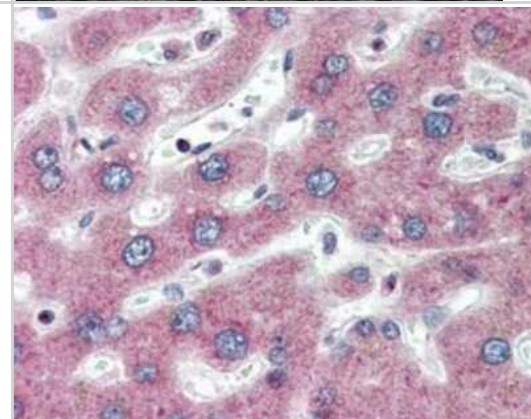
Western Blot: PTH1R/PTHR1 Antibody (3D1.1) [NBP1-40067] - PTH1R protein expression by immunoblot of e13.5 tissue lysates from wild type and Ramp2<sup>-/-</sup> placentas. Image collected and cropped by CiteAb from the following publication ([dx.plos.org/10.1371/journal.pone.0181597](https://doi.org/10.1371/journal.pone.0181597)), licensed under a CC-BY license.



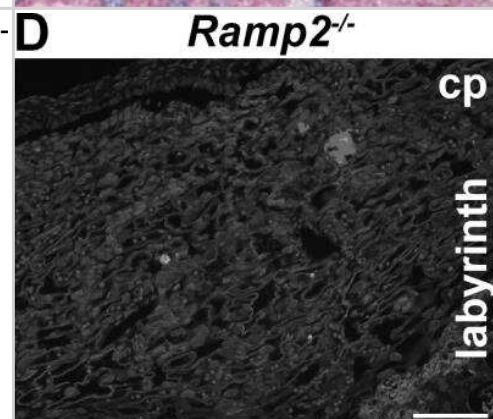
Immunohistochemistry: PTH1R/PTHR1 Antibody (3D1.1) [NBP1-40067] - Immunofluorescence for PTH1R in the labyrinth of wild type and Ramp2<sup>-/-</sup> placentas. Scale bars, 100  $\mu$ m. Image collected and cropped by CiteAb from the following publication ([dx.plos.org/10.1371/journal.pone.0181597](https://doi.org/10.1371/journal.pone.0181597)), licensed under a CC-BY license.



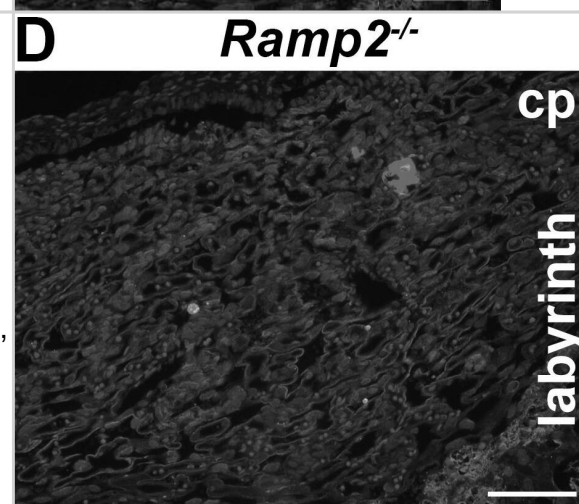
Immunohistochemistry-Paraffin: PTH1R/PTHR1 Antibody (3D1.1) [NBP1-40067] - Analysis of anti-PTH1R antibody with human liver at concentration 5  $\mu$ g/ml.



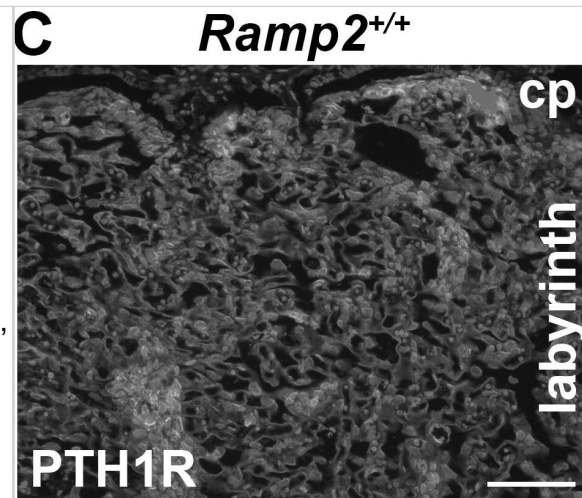
Immunohistochemistry: PTH1R/PTHR1 Antibody (3D1.1) [NBP1-40067] - Immunofluorescence for PTH1R in the labyrinth of wild type and Ramp2<sup>-/-</sup> placentas. Scale bars, 100  $\mu$ m. Image collected and cropped by CiteAb from the following publication ([dx.plos.org/10.1371/journal.pone.0181597](https://doi.org/10.1371/journal.pone.0181597)), licensed under a CC-BY license.



Immunocytochemistry/ Immunofluorescence: PTH1R/PTHR1 Antibody (3D1.1) [NBP1-40067] - Loss of Ramp2 alters mRNA expression of RAMP2-associating GPCRs, including Pthr1. (A) mRNA expression of RAMP2-interacting GPCRs from e13.5 wild type & Ramp2<sup>-/-</sup> placentas (n $\geq$ 3 placentas per genotype). (B) PTH1R protein expression by immunoblot of e13.5 tissue lysates from wild type & Ramp2<sup>-/-</sup> placentas. (C & D), Immunofluorescence for PTH1R in the labyrinth of wild type & Ramp2<sup>-/-</sup> placentas. Scale bars, 100  $\mu$ m. Pth1r, parathyroid hormone receptor 1; Casr, calcium-sensing receptor; Ctr, calcitonin receptor; Calclr, calcitonin receptor-like receptor; Gcgr, glucagon receptor; Vpac1r, vasoactive intestinal peptide receptor 1; Crhr1, corticotrophin releasing hormone receptor 1. \*p<0.01. Image collected & cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/28727763>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Immunocytochemistry/ Immunofluorescence: PTH1R/PTHR1 Antibody (3D1.1) [NBP1-40067] - Loss of Ramp2 alters mRNA expression of RAMP2-associating GPCRs, including Pthr1. (A) mRNA expression of RAMP2-interacting GPCRs from e13.5 wild type & Ramp2<sup>-/-</sup> placentas (n≥3 placentas per genotype). (B) PTH1R protein expression by immunoblot of e13.5 tissue lysates from wild type & Ramp2<sup>-/-</sup> placentas. (C & D), Immunofluorescence for PTH1R in the labyrinth of wild type & Ramp2<sup>-/-</sup> placentas. Scale bars, 100 μm. Pth1r, parathyroid hormone receptor 1; Casr, calcium-sensing receptor; Ctr, calcitonin receptor; Calcr, calcitonin receptor-like receptor; Gcgr, glucagon receptor; Vpac1r, vasoactive intestinal peptide receptor 1; Crhr1, corticotrophin releasing hormone receptor 1. \*p<0.01. Image collected & cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/28727763>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



## Publications

C. Tsutsumi-Arai, Y. Arai, A. Tran, M. Salinas, Y. Nakai, S. Orikasa, W. Ono, N. Ono A PTHrP Gradient Drives Mandibular Condylar Chondrogenesis via Runx2 Journal of Dental Research 2023-12-06 [PMID: 38058151]

Dole, N S, Yee, C S Et al. TGF beta Regulation of Perilacunar/Canalicular Remodeling Is Sexually Dimorphic. J Bone Miner Res 2020-08-01 [PMID: 32282961] (FLOW, Human)

Kadmiel M, Matson BC, Espenschied ST et al. Loss of receptor activity-modifying protein 2 in mice causes placental dysfunction and alters PTH1R regulation PLoS ONE 2017-07-20 [PMID: 28727763] (ICC/IF, Mouse)

Madiraju P, Gawri R, Wang H et al. Mechanism of parathyroid hormone-mediated suppression of calcification markers in human intervertebral disc cells. Eur Cell Mater 2013-05-02 [PMID: 23636951] (WB, Human)



### **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](http://www.novusbio.com)  
Technical Support: nb-technical@bio-techne.com  
Orders: nb-customerservice@bio-techne.com  
General: novus@novusbio.com

### **Products Related to NBP1-40067**

HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-43319-0.5mg	Mouse IgG1 Kappa Isotype Control (P3.6.2.8.1)
NBP3-16996PEP	PTH1R/PTHR1 Recombinant Protein Antigen

### **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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