

Product Datasheet

PTH1R/PTHR1 Antibody (4D2) - BSA Free NBP1-51640

Unit Size: 0.1 ml

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

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NBP1-51640

PTH1R/PTHR1 Antibody (4D2) - BSA Free

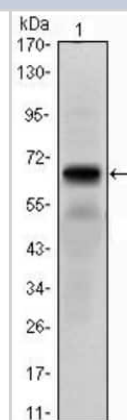
Product Information	
Unit Size	0.1 ml
Concentration	This product is unpurified. The exact concentration of antibody is not quantifiable.
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	4D2
Preservative	0.03% Sodium Azide
Isotype	IgG1
Purity	Unpurified
Buffer	Ascites
Target Molecular Weight	66 kDa

Product Description	
Host	Mouse
Gene ID	5745
Gene Symbol	PTH1R
Species	Human, Mouse
Reactivity Notes	Mouse reactivity reported in scientific literature (PMID: 31772214).
Immunogen	Purified recombinant fragment of human PTH1R/PTHR1 expressed in E. Coli.

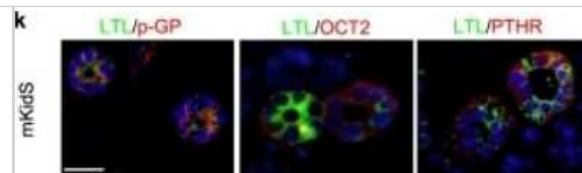
Product Application Details	
Applications	Western Blot, ELISA, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin
Recommended Dilutions	Western Blot 1:500 - 1:2000, ELISA 1:10000, Immunohistochemistry 1:10 - 1:500, Immunocytochemistry/ Immunofluorescence 1:200 - 1:1000, Immunohistochemistry-Paraffin 1:200 - 1:1000

Images

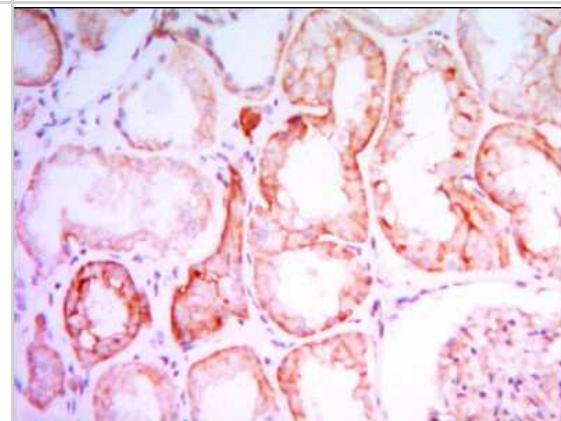
Western Blot: PTH1R/PTHR1 Antibody (4D2) [NBP1-51640] - Analysis using PTH1R mAb against PTH1R (AA: 27-188)-hlgGfc transfected HEK293 cell lysate.



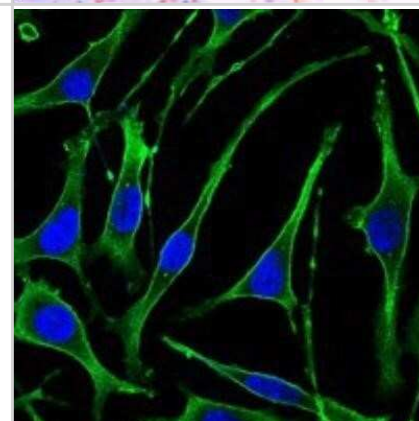
Immunocytochemistry/Immunofluorescence: PTH1R/PTHR1 Antibody (4D2) [NBP1-51640] - Generation of functional kidney spheroids using immortalized mouse primary cells. Representative images of mKidS immunostained for p-GP, OCT2, and PTHR. All data are shown as the means \pm s.e.m. * $p < 0.05$ compared with 2D or 3D control by unpaired Student's t-test. Scale bar, 20 μ m. Image collected and cropped by CiteAb from the following publication (<https://www.nature.com/articles/s41598-019-53855-2>) licensed under a CC-BY license.



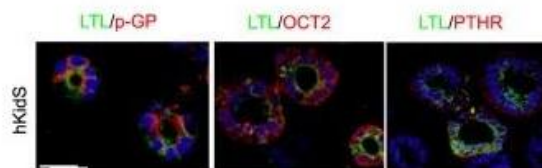
Immunohistochemistry-Paraffin: PTH1R/PTHR1 Antibody (4D2) [NBP1-51640] - Analysis of human kidney tissues using PTH1R mouse mAb with DAB staining.



Immunocytochemistry/Immunofluorescence: PTH1R/PTHR1 Antibody (4D2) [NBP1-51640] - Analysis of SK-BR-3 cells using PTH1R mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye.



Immunocytochemistry/ Immunofluorescence: PTH1R/PTHR1 Antibody (4D2) - BSA Free [NBP1-51640] - Generation of functional kidney spheroids using immortalized human primary cells. (a) Quantitative RT-PCR analysis of kidney-specific segment markers in hKidS compared with 2D controls (2D CTL) & human kidney lysates (hKidney). n = 8 for 2D CTL & hKidS & n = 3 for hKidney. (b) Western blotting analysis for renal multi-lineage marker in mouse kidney spheroids compared to 2D CTL & hKidney. The grouping of gels/blots cropped from different parts of the same gel. (c) Representative images for cell polarity of Zo-1, an apical membrane, & Na/K ATPase, a basolateral membrane marker in hKidS. Scale bar, 10 μ m. (d) Representative images of human kidney spheroids (hKidS) at day 5 of maturation stained for the kidney-specific markers LTL, PNA, AQP2, & Nephrin. Human kidney was used as positive control for immunostaining of hKidS. (e) Responses to parathyroid hormone (PTH) of hKidS compared with 3D control spheroids (without maturation factors, CTL) & 2D cells. (f) GGT activity in hKidS compared with 3D CTL. (g) Temperature-dependent albumin-fluorescein uptake of hKidS compared to 3D CTL. n = 10 for 3D CTL & hKidS. (h,i) Relative mRNA expression of apical (h) & basolateral (i) transporters in hKidS compared to 2D cultured cells, hPTECs spheroids generated using the same protocol for hKidS (hPTECs-3D), & hKidney. n = 9 for 2D CTL & hKidS & n = 3 for hPTECs-3D & hKidney. (j) Representative images of hKidS immunostained for p-GP, OCT2, & PTHR. All data are shown as the means \pm s.e.m. *p < 0.05 compared with 2D or 3D control by unpaired Student's t-test. Scale bar, 20 μ m. Image collected & cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/31772214>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Publications

Filidou E, Kandilogiannakis L, Tarapatzi G et al. A Simplified and Effective Approach for the Isolation of Small Pluripotent Stem Cells Derived from Human Peripheral Blood Biomedicines 2023-03-05 [PMID: 36979766] (Immunocytochemistry/ Immunofluorescence, Human)

Kang HM, Lim JH, Noh KH et al. Effective reconstruction of functional organotypic kidney spheroid for in vitro nephrotoxicity studies Sci Rep 2019-11-26 [PMID: 31772214] (ICC/IF, Mouse)



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Products Related to NBP1-51640

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NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-97005-0.5mg	Mouse IgG1 Isotype Control (MG1)
NBP1-87192PEP	PTH1R/PTHR1 Recombinant Protein Antigen

Limitations

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