

Product Datasheet

Natriuretic Peptide Receptor C Antibody - BSA Free NBP1-31365

Unit Size: 100 ul

Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.

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Publications: 5

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NBP1-31365**Natriuretic Peptide Receptor C Antibody - BSA Free**

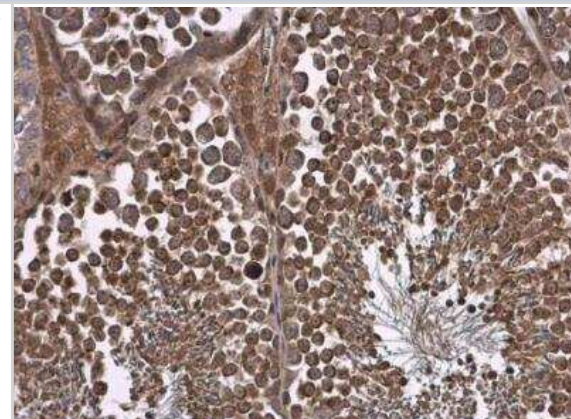
Product Information	
Unit Size	100 ul
Concentration	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
Storage	Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.025% Proclin 300
Isotype	IgG
Purity	Antigen Affinity-purified
Buffer	PBS, 20% Glycerol
Target Molecular Weight	60 kDa

Product Description	
Description	Novus Biologicals Rabbit Natriuretic Peptide Receptor C Antibody - BSA Free (NBP1-31365) is a polyclonal antibody validated for use in IHC and WB. Anti-Natriuretic Peptide Receptor C Antibody: Cited in 5 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	4883
Gene Symbol	NPR3
Species	Human, Mouse, Rat, Chicken, Rabbit
Reactivity Notes	Immunogen displays the following percentage of sequence identity for non-tested species: <i>Xenopus laevis</i> (82%).
Immunogen	Recombinant protein encompassing a sequence within the center region of human Natriuretic Peptide Receptor C. The exact sequence is proprietary.

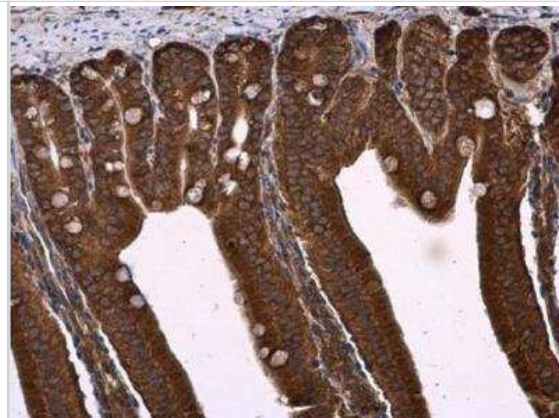
Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, Immunohistochemistry
Recommended Dilutions	Western Blot Assay dependent, Immunohistochemistry 1:100-1:1000, Immunohistochemistry-Paraffin 1:100-1:1000

Images

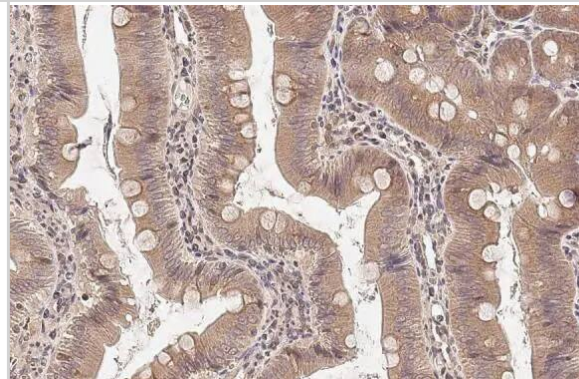
Immunohistochemistry-Paraffin: Natriuretic Peptide Receptor C Antibody [NBP1-31365] - Mouse testis. NPR-C antibody [N3C3] diluted at 1:500. Antigen Retrieval: Citrate buffer, pH 6.0, 15 min.



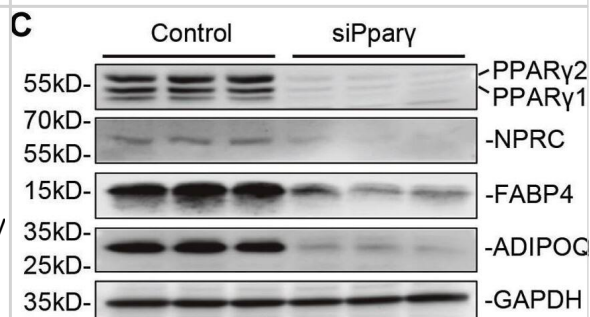
Immunohistochemistry-Paraffin: Natriuretic Peptide Receptor C Antibody [NBP1-31365] - Mouse duodenum. NPR-C antibody [N3C3] diluted at 1:500. Antigen Retrieval: Citrate buffer, pH 6.0, 15 min.



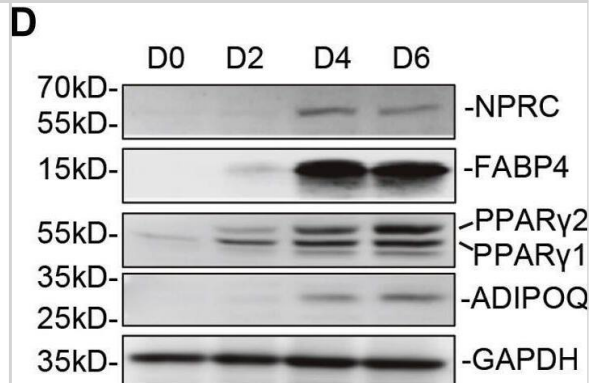
Immunohistochemistry-Paraffin: Natriuretic Peptide Receptor C Antibody [NBP1-31365] - Natriuretic Peptide Receptor C antibody [N3C3] detects Natriuretic Peptide Receptor C protein at cell membrane by immunohistochemical analysis. Sample: Paraffin-embedded rat duodenum. Natriuretic Peptide Receptor C stained by Natriuretic Peptide Receptor C antibody [N3C3] (NBP1-31365) diluted at 1:500. Antigen Retrieval: Citrate buffer, pH 6.0, 15 min



Modulation of Nprc expression by rosiglitazone and PPAR γ . A, mRNA levels of Nprc and Fabp4 in 3T3-L1 adipocytes after treatment with 1 μ M rosiglitazone (Rosi) or vehicle (Veh) for 6 h. B, mRNA levels of Nprc, Fabp4, and Ppar1/2 mRNA in 3T3-L1 adipocytes after siRNA knockdown of Ppar (siPpar). C, protein levels of PPAR γ 1/2, NPRC, FABP4, and ADIPOQ in 3T3-L1 adipocytes after siPpar. D, mRNA levels of Nprc and Fabp4 in NIH-3T3 cells (NIH) and NIH-3T3 cells stably expressing PPAR γ (NIH-PPAR γ) after treatment with 1 μ M rosiglitazone (Rosi) or vehicle (Veh) for 6 h. Quantitative PCR data were normalized with 36B4. Student's t test, \square p < 0.05, $\square\square$ p < 0.01, $\square\square\square$ p < 0.001, and $\square\square\square\square$ p < 0.0001. Fabp4, fatty acid-binding protein 4; NIH, National Institutes of Health; Nprc, NP receptor C; ns, not significant; PPAR γ , peroxisome proliferator-activated receptor gamma. Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/34245781>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Nprc mRNA expression during 3T3-L1 adipocyte differentiation. A-C, mRNA levels of Nprc (A), Fabp4 (B), and Ppar1/2 (C) during 3T3-L1 adipocyte differentiation. Data were normalized with 36B4. D, protein levels of NPRC, FABP4, PPAR γ 1/2, and ADIPOQ during 3T3-L1 adipocyte differentiation (Day 0, 2, 4, and 6). FABP4, fatty acid-binding protein 4; Nprc, NP receptor C; PPAR γ 1/2, peroxisome proliferator-activated receptor gamma1/2. Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/34245781>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Publications

Cachorro E, Gonscht M, Schubert M et al. CNP Promotes Antiarrhythmic Effects via Phosphodiesterase 2 Circulation research 2023-02-17 [PMID: 36715019] (SDS-Page, Human)

Agrawal V, Fortune N, Yu S et al. EXPRESS: Natriuretic Peptide Receptor C Contributes to Disproportionate Right Ventricular Hypertrophy in a Rodent Model of Obesity Induced Heart Failure with Preserved Ejection Fraction with Pulmonary Hypertension Pulm Circ 2020-01-07 [PMID: 31903184]

Shi F, Simandi Z, Nagy L, Collins S Diet-dependent natriuretic peptide receptor C expression in adipose tissue is mediated by PPAR gamma via long-range distal enhancers The Journal of biological chemistry 2021-07-07 [PMID: 34245781] (WB)

Wu W, Shi F et al. Enhancing natriuretic peptide signaling in adipose tissue, but not in muscle, protects against diet-induced obesity and insulin resistance. Sci Signal 2017-07-25 [PMID: 28743802] (WB, Mouse)

Kovacova Z, Tharp WG, Liu D et al. Adipose tissue natriuretic peptide receptor expression is related to insulin sensitivity in obesity and diabetes. Obesity (Silver Spring). 2016-02-17 [PMID: 26887289] (WB, Human)

Details:

Natriuretic Peptide Receptor C (NPRC) antibody used for WB on human subcutaneous adipose lysates from lean subjects, obese subjects with NGT (normal glucose tolerance), and subjects with T2DM (type 2 diabetes mellitus) (Figure 1C).





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Products Related to NBP1-31365

NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit 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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