

Product Datasheet

Vitamin D BP Antibody - BSA Free NBP1-88027

Unit Size: 0.1 ml

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

www.novusbio.com



technical@novusbio.com

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NBP1-88027

Vitamin D BP Antibody - BSA Free

Product Information	
Unit Size	0.1 ml
Concentration	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.02% Sodium Azide
Isotype	IgG
Purity	Affinity purified
Buffer	PBS (pH 7.2) and 40% Glycerol

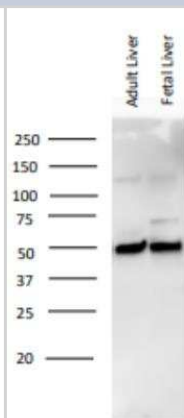
Product Description	
Description	Novus Biologicals Rabbit Vitamin D BP Antibody - BSA Free (NBP1-88027) is a polyclonal antibody validated for use in IHC, WB and Simple Western. Anti-Vitamin D BP Antibody: Cited in 2 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	2638
Gene Symbol	GC
Species	Human, Mouse, Rat, Equine
Reactivity Notes	Equine reactivity reported from a verified by customer review.
Immunogen	This antibody was developed against Recombinant Protein corresponding to amino acids: LGKEDFTSLSLVLYSRKFPSGTFEQVSQLVKEVVSLTEACCAEGADPDCYDTR TSALSAKSCESNSPFPVHPGTAECCTKEGLERKLCMAALKHQPFQEFPTYVEPT NDEICEAFRKDPKEYANQFMWEYSTNYGQAPLSLL

Product Application Details	
Applications	Western Blot, Simple Western, Immunohistochemistry-Paraffin, Immunohistochemistry
Recommended Dilutions	Western Blot 0.04 - 0.4 ug/mL, Simple Western, Immunohistochemistry 1:2500 - 1:5000, Immunohistochemistry-Paraffin 1:2500 - 1:5000
Application Notes	For IHC-Paraffin, HIER pH 6 retrieval is recommended. Vitamin D BP antibody validated for Simple Western from a verified customer review. See Simple Western Antibody Database for Simple Western validation: separated by Size

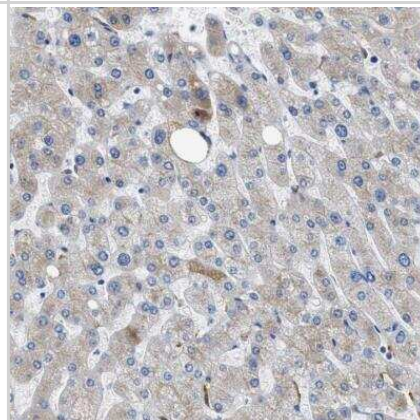


Images

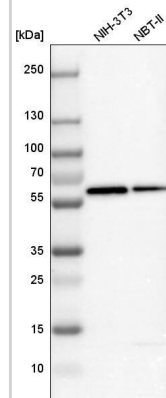
Western Blot: Vitamin D BP Antibody [NBP1-88027] - Equine adult and embryonic liver cell lysates. WB image submitted by a verified customer review.



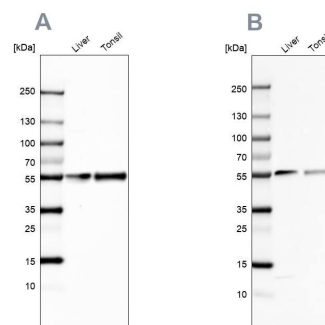
Immunohistochemistry-Paraffin: Vitamin D BP Antibody [NBP1-88027] - Staining of human liver shows cytoplasmic positivity in hepatocytes.



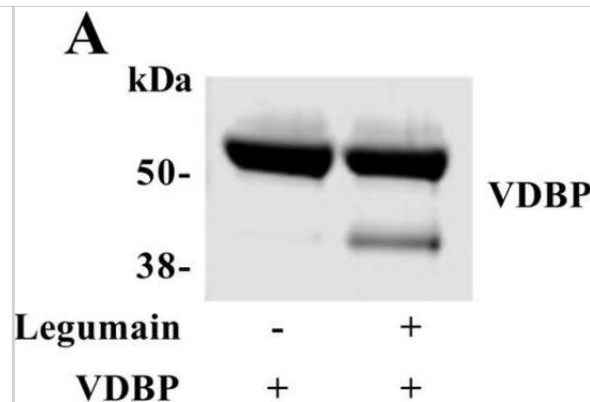
Analysis in mouse cell line NIH-3T3 and rat cell line NBT-II.



Analysis using Anti-GC antibody NBP1-88027 (A) shows similar pattern to independent antibody NBP1-88028 (B).



Legumain is required for VDBP processing and regulation. (A) Purified VDBP from human plasma (1.9 μ M) was incubated in legumain assay buffer (pH 5.8) at 37 C with or without purified active bovine legumain (2 μ M) for 5 h before gel electrophoresis and immunoblotting of VDBP (n = 1). (B–H) Wild-type (Lgmn+/+) and legumain-deficient (Lgmn-/-) mice were treated with 50 ug/kg 25(OH)D3 (n = 6–7) or an equal volume vehicle (n = 7, control) subcutaneously every two to three days (four times in total). Tissues were harvested 24 h after the final injection (day 8). (B) One representative immunoblot of VDBP and GAPDH (housekeeping) in kidney and liver (n = 4). (C–F) Quantification of VDBP immunoband (IB) intensity as arbitrary units (ARBU) relative to GAPDH in immunoblots represented in (B) (n = 4). (C) Hepatic VDBP 45 kDa immunoband. (D) Renal VDBP 45 kDa immunoband. (E) Hepatic VDBP 55 kDa immunoband. (F) Renal VDBP 55 kDa immunoband. (G) Plasma VDBP concentration (μ g/mL) was measured by ELISA (n = 6–7). (H) Hepatic VDBP mRNA expression relative to the geometric mean of CT values of four housekeeping controls ($2^{-\Delta\Delta CT}$, n = 5). (C–H) Data represent mean \pm SEM. Two-way ANOVA. # p < 0.05, ## p < 0.01, ### p < 0.001 vs. different genotype, same treatment. Numbers (n) represent individual biological replicates. Image collected and cropped by CiteAb from the following open publication (<https://www.mdpi.com/2073-4409/13/1/36>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Publications

Forbord, KM;Okla, M;Lunde, NN;Bosnjak-Olsen, T;Arnekleiv, G;Hesselson, D;Johansen, HT;Tang, JCY;Kassem, M;Solberg, R;Jafari, A; The Cysteine Protease Legumain Is Upregulated by Vitamin D and Is a Regulator of Vitamin D Metabolism in Mice Cells 2023-12-22 [PMID: 38201240]

Matsui S, Yamamoto T, Takabatake Y et al. Empagliflozin protects the kidney by reducing toxic ALB (albumin) exposure and preventing autophagic stagnation in proximal tubules. Autophagy 2024-10-14 [PMID: 39385699]



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 NBP1-88027

NBP1-88027PEP	Vitamin D BP Recombinant Protein Antigen
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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