Product Datasheet

ABCG8 Antibody - BSA Free

NB400-110

Unit Size: 0.1 ml

Store at 4C. Do not freeze.

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Publications: 6

Protocols, Publications, Related Products, Reviews, Research Tools and Images at:
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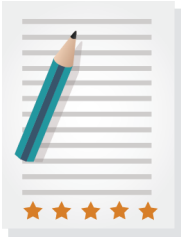
Updated 9/9/2025 v.20.1



NB400-110

ABCG8 Antibody - BSA Free

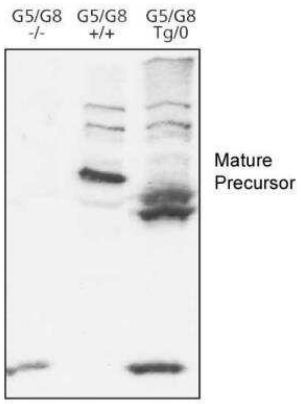
Product Information	
Unit Size	0.1 ml
Concentration	1 mg/ml
Storage	Store at 4C. Do not freeze.
Clonality	Polyclonal
Preservative	0.1% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	PBS

Product Description	
Description	Novus Biologicals Rabbit ABCG8 Antibody - BSA Free (NB400-110) is a polyclonal antibody validated for use in WB. Anti-ABCG8 Antibody: Cited in 6 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	64241
Gene Symbol	ABCG8
Species	Human, Mouse (Negative)
Reactivity Notes	Does not appear to react with mouse.
Immunogen	A synthetic peptide from the N-terminal region of human ABCG8 protein. [UniProt# Q9H221]

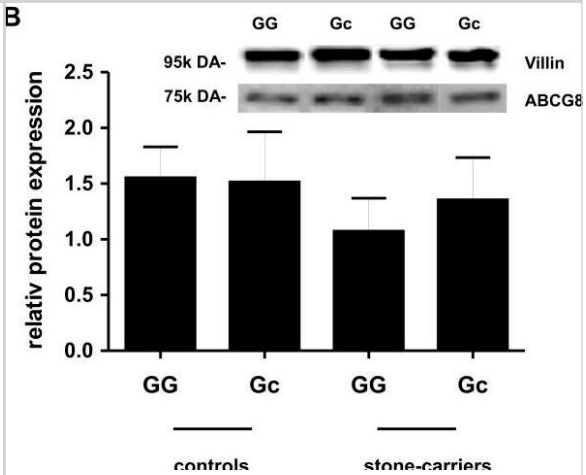
Product Application Details	
Applications	Western Blot, Immunohistochemistry (Negative)
Recommended Dilutions	Western Blot 1:500, Immunohistochemistry (Negative)
Application Notes	This ABCG8 antibody is useful for Western blot. The antibody does not appear to be applicable in immunohistochemistry.

Images

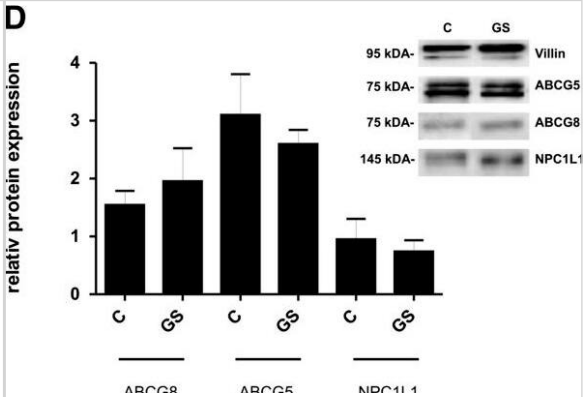
Western Blot: ABCG8 Antibody [NB400-110] - Analysis of ABCG8, using NB400-110. Samples: mouse liver microsomes from G5/G8 knockout mice, wildtype human G5/G8, and transgenic human G5/G8.



Correlation of ABCG8 expression to the frequency of the polymorphism D19H in the Stuttgart cohort. The expression analysis was performed in human ileal mucosal biopsies. Values are given as means +/- SEM. Significance between the subgroups was analysed with Mann–Whitney U-test (nonparametric, two-tailed). P-values <0.05 were considered as statistically significant. (A) Quantitative analysis of mRNA expression is calculated as copy numbers. (GG) = wild type individual; (Gc) = carrier of p.D19H. Controls: (GG) = 80 and (Gc) = 15; gallstone carriers: (GG) = 20 and (Gc) = 9. (B) Representative Western blot images of ABCG8 protein and villin in ileal mucosa of control individuals and gallstone carriers, with and without p.D19H. Protein content was determined by densitometric analysis. The data were normalized to villin, an epithelial marker protein. Controls: (GG) = 59 and (Gc) = 11; gallstone carriers: (GG) = 11 and (Gc) = 9. Image collected and cropped by CiteAb from the following open publication (https://pubmed.ncbi.nlm.nih.gov/23406058), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Expression of cholesterol transporters in female gallstone carriers and healthy controls. The expression analysis was performed in human ileal mucosal biopsies. Values are calculated as means +/- SEM (standard error of the mean). Significance between the controls and gallstone carriers was analysed with Mann–Whitney U-test (nonparametric, two-tailed). Normal weight subgroup is defined as BMI ≤ 25.4, overweight subgroup as BMI > 25.4. P-values <0.05 were considered as statistically significant. (A-C) Quantification of mRNA expression is given as transcript numbers. ABCG5/ABCG8 = ATP-binding cassette transporter, NPC1L1 = Niemann-Pick C1-Like 1 protein *P = 0.0417, C = control subject, GS = gallstone carrier. Total: C = 98, GS = 30; normal weight: C = 57, GS = 10; overweight: C = 41, GS = 20. (D) Representative Western blot images of ABCG8, ABCG5 and NPC1L1 in ileal mucosa of gallstone carriers and controls. Protein content was determined by densitometric analysis. The data were normalized to villin, an epithelial marker protein. ABCG8: C = 70, GS = 20; ABCG5: C = 7, GS = 7; NPC1L1: C = 7, GS = 7. Image collected and cropped by CiteAb from the following open publication (https://pubmed.ncbi.nlm.nih.gov/23406058), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Publications

Matsuo M, Ogata Y, Yamanashi Y, Takada T ABCG5 and ABCG8 Are Involved in Vitamin K Transport Nutrients 2023 -02-16 [PMID: 36839356]

Maqdasy S, El Hajjaji FZ, Baptissart M et al. Identification of the Functions of Liver X Receptor-beta in Sertoli Cells Using a Targeted Expression-Rescue Model. Endocrinology 2015-12-01 [PMID: 26402841] (Mouse)

Details:
This publication used the Biotin conjugated form of this antibody (NB400-110B)

Suzuki S, Shuto T, Sato T et al. Inhibition of post-translational N-glycosylation by HRD1 that controls the fate of ABCG5/8 transporter. Sci Rep 2014-03-03 [PMID: 24584735] (WB, Human)

Renner O, Lutjohann D, Richter D et al. Role of the ABCG8 19H risk allele in cholesterol absorption and gallstone disease. BMC Gastroenterol 2013-02-13 [PMID: 23406058] (WB, Human)

Mathur, SN, Watt, KR, Field, FJ. Regulation of intestinal NPC1L1 expression by dietary fish oil and docosahexaenoic acid. J Lipid Res;48(2):395-404. 2007-02-01 [PMID: 17114806]

Kobayashi, A et al. Efflux of sphingomyelin, cholesterol, and phosphatidylcholine by ABCG1. J Lipid Res;47(8):1791-802. 2006-08-01 [PMID: 16702602] (WB, Human)

Procedures

Western Blot protocol for ABCG8 Antibody (NB400-110)
ABCG8 Antibody:
Western Blot Protocol

1. Load ~50 micrograms of lysate (ie: liver membrane) onto an 8% SDS-PAGE, reducing.

2. Block the protein transferred membrane for 30 minutes in blocking buffer [5% NFDM, 10 mM Tris (pH 7.6) saline, 0.2% Tween-20] at room temperature.

3. Incubate the membrane in diluted primary anti-ABCG8 [cat# NB 400-110], 1:500 for 1 hour at room temperature.

4. Wash the membrane 3x 5 minutes in blocking buffer without milk.

5. Incubate the membrane in diluted secondary anti-Rabbit IgG conjugated to HRP.

6. Wash the membrane 3x 5 minutes in blocking buffer without milk.

7. Wash the membrane for 5 minutes in TBS.

8. Develop using West-Pico ECL (Pierce) reagent.

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 NB400-110

NB400-110PEP	ABCG8 Antibody Blocking Peptide
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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