

# Product Datasheet

## ABCG8 Antibody - BSA Free NB400-117

Unit Size: 0.2 ml

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

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### Publications: 7

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**NB400-117**

ABCG8 Antibody - BSA Free

Product Information	
Unit Size	0.2 ml
Concentration	1 mg/ml
Storage	Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.02% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	Tris-Citrate/Phosphate (pH 7.0 - 8.0)
Target Molecular Weight	70 kDa

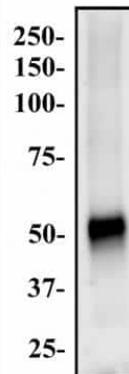
Product Description	
Description	Novus Biologicals Rabbit ABCG8 Antibody - BSA Free (NB400-117) is a polyclonal antibody validated for use in WB and ICC/IF. Anti-ABCG8 Antibody: Cited in 7 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	64241
Gene Symbol	ABCG8
Species	Human, Mouse
Immunogen	A synthetic peptide from the N-terminal region of human ABCG8 protein. [UniProt# Q9H221]

Product Application Details	
Applications	Western Blot, Immunocytochemistry/ Immunofluorescence
Recommended Dilutions	Western Blot 1:250-1:500, Immunocytochemistry/ Immunofluorescence 1:250
Application Notes	This ABCG8 antibody is useful for Immunocytochemistry/Immunofluorescence and Western Blot where a doublet is seen at ~67kDa and ~72kDa. Longer exposure times are needed to visualize the wild type ABCG8. For mouse, 100 ug protein (B6/129AKRFVB liver homogenate) loaded with antibody diluted at 1:500. In ICC/IF punctate membrane localization with some weak nuclear reactivity was observed in HEK293 cells. The observed molecular weight of the protein may vary from the listed predicted molecular weight due to post translational modifications, post translation cleavages, relative charges, and other experimental factors.

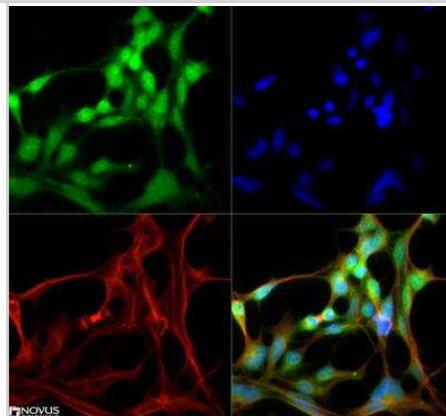


## Images

Western Blot: ABCG8 Antibody [NB400-117] - Total protein from Mouse small intestine was separated on a 7.5% gel by SDS-PAGE and transferred to PVDF membrane. The membrane was then probed with anti-ABCG8 antibody at 2 ug/ml and detected with an anti-rabbit HRP conjugated secondary antibody using chemiluminescence.



Immunocytochemistry/Immunofluorescence: ABCG8 Antibody [NB400-117] - ABCG8 antibody was tested in HEK293 cells with DyLight 488 (green). Nuclei and alpha-tubulin were counterstained with DAPI (blue) and Dylight 550 (red).



## Publications

Sachdev V, Leopold C, Bauer R et al. Novel role of a triglyceride-synthesizing enzyme: DGAT1 at the crossroad between triglyceride and cholesterol metabolism. *Molecular and Cell Biology of Lipids*. 2016-06-23 [PMID: 27344248] (WB)

### Details:

This citation used the Alexa Fluor 488 version of this antibody.

Heverin M, Ali Z, Olin M et al. On the regulatory importance of 27-hydroxycholesterol in mouse liver J. *Steroid Biochem. Mol. Biol.* 2016-02-03 [PMID: 26851362] (WB, Mouse)

Huang Y, Wang J, Quan G et al. *Lactobacillus acidophilus* ATCC 4356 prevents atherosclerosis via inhibition of intestinal cholesterol absorption in Apolipoprotein E-knockout mice. *Appl. Environ. Microbiol.* 2014-09-26 [PMID: 25261526] (WB, Mouse)

### Details:

ABCG5 antibody used for WB on total proteins isolated from small intestines of ApoE<sup>0/0</sup> mice treated with or without *Lactobacillus acidophilus* / ATCC 4356 (FIG 7C).

Bujold K, Mellal K, Zoccal KF et al. EP 80317, a CD36 selective ligand, promotes reverse cholesterol transport in apolipoprotein E-deficient mice. *Atherosclerosis* 2013-08-01 [PMID: 23880196] (WB, Mouse)

Levy E, Ouadda AB, Spahis S et al. PCSK9 plays a significant role in cholesterol homeostasis and lipid transport in intestinal epithelial cells. *Atherosclerosis* 2013-02-04 [PMID: 23422832] (WB, Human)

### Details:

Using the HRP conjugated version of NB400-128, catalog number NB400-128H.

Grenier E, Garofalo C, Delvin E, Levy E. Modulatory Role of PYY in Transport and Metabolism of Cholesterol in Intestinal Epithelial Cells *plos One* 2012-01-01 [PMID: 22844422] (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]



## Procedures

### Western Blot protocol for ABCG8 Antibody (NB400-117)

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 400-117], 1:250 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 reagent (Pierce).

### Immunocytochemistry/Immunofluorescence protocol for ABCG8 Antibody (NB400-117)

ABCG8 Antibody:

Immunocytochemistry Protocol

Culture cells to appropriate density in 35 mm culture dishes or 6-well plates.

1. Remove culture medium and add 10% formalin to the dish. Fix at room temperature for 30 minutes.
2. Remove the formalin and add ice cold methanol. Incubate for 5-10 minutes.
3. Remove methanol and add washing solution (i.e. PBS). Be sure to not let the specimen dry out. Wash three times for 10 minutes.
4. To block nonspecific antibody binding incubate in 10% normal goat serum from 1 hour to overnight at room temperature.
5. Add primary antibody at appropriate dilution and incubate at room temperature from 2 hours to overnight at room temperature.
6. Remove primary antibody and replace with washing solution. Wash three times for 10 minutes.
7. Add secondary antibody at appropriate dilution. Incubate for 1 hour at room temperature.
8. Remove antibody and replace with wash solution, then wash for 10 minutes. Add Hoechst 33258 to wash solution at 1:25,000 and incubate for 10 minutes. Wash a third time for 10 minutes.
9. Cells can be viewed directly after washing. The plates can also be stored in PBS containing Azide covered in Parafilm (TM). Cells can also be cover-slipped using Fluoromount, with appropriate sealing.

\*The above information is only intended as a guide. The researcher should determine what protocol best meets their needs. Please follow safe laboratory procedures.





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### **Products Related to NB400-117**

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NB400-117PEP	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

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### **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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