

Product Datasheet

ABCG2/CD338 Antibody (3G8) - BSA Free NBP2-22124

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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NBP2-22124

ABCG2/CD338 Antibody (3G8) - BSA Free

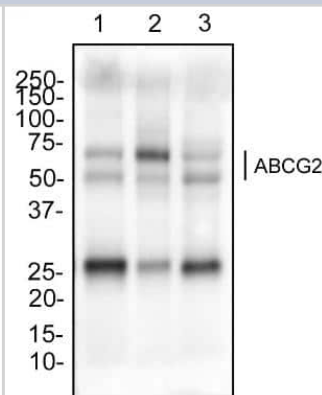
Product Information	
Unit Size	0.1 ml
Concentration	1.0 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	3G8
Preservative	0.03% Sodium Azide
Isotype	IgG1
Purity	Ammonium sulfate precipitation
Buffer	PBS
Target Molecular Weight	60-70 kDa

Product Description	
Description	Novus Biologicals Mouse ABCG2/CD338 Antibody (3G8) - BSA Free (NBP2-22124) is a monoclonal antibody validated for use in IHC, WB, ELISA, Flow and ICC/IF. Anti-ABCG2/CD338 Antibody: Cited in 8 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Mouse
Gene ID	9429
Gene Symbol	ABCG2
Species	Human, Mouse, Primate
Marker	Stem Cell Marker
Immunogen	Purified recombinant fragment of human ABCG2 expressed in E. coli. [Uniprot: Q9UNQ0]

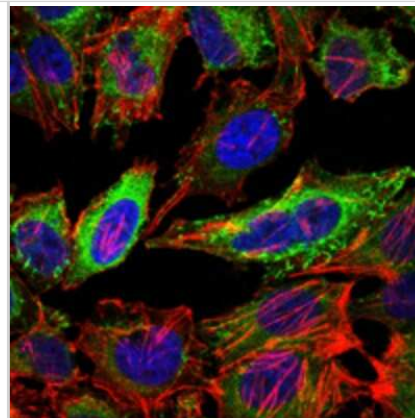
Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, ELISA, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry
Recommended Dilutions	Western Blot 1:500-1:2000, Flow Cytometry 1:200-1:400, ELISA 1:10000, Immunohistochemistry 1:10-1:500, Immunocytochemistry/ Immunofluorescence 1:200-1:1000, Immunohistochemistry-Paraffin 1:200-1:1000
Application Notes	In Western blot, a dimer can be seen at 60-70 kDa representing ABCG2.

Images

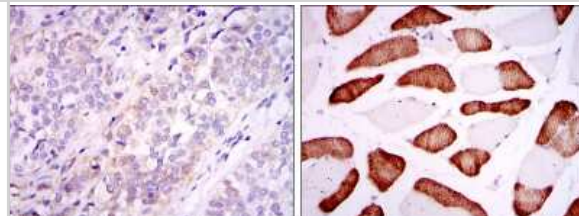
Western Blot: ABCG2/CD338 Antibody (3G8) [NBP2-22124] - Analysis of ABCG2 expression in (1) human small intestine, (2) human placenta and (3) mouse placenta tissue extracts.



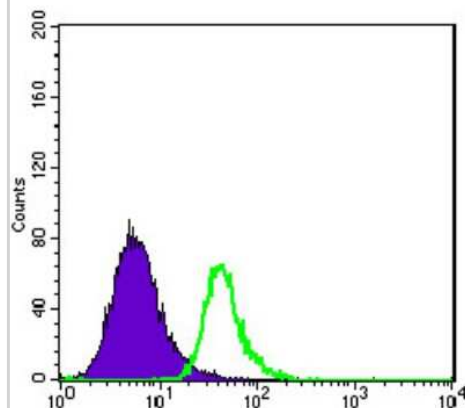
Immunocytochemistry/Immunofluorescence: ABCG2/CD338 Antibody (3G8) [NBP2-22124] - Analysis of Hela cells using ABCG2 mouse mAb (green). DRAQ5 fluorescent DNA dye (blue). Actin filaments have been labeled with Alexa Fluor-555 phalloidin (red).



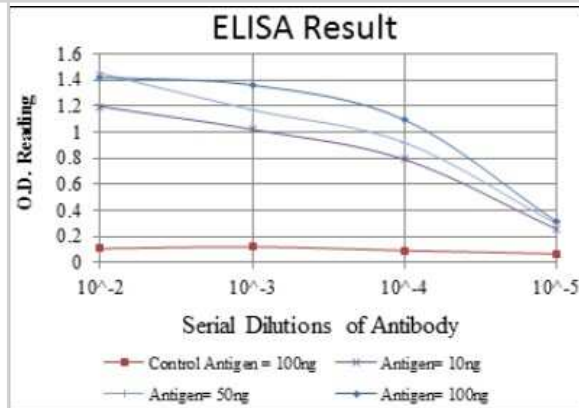
Immunohistochemistry-Paraffin: ABCG2/CD338 Antibody (3G8) [NBP2-22124] - Analysis of paraffin-embedded bladder cancer tissues (left) and skeletal muscle tissues (right) using ABCG2 mouse mAb with DAB staining.



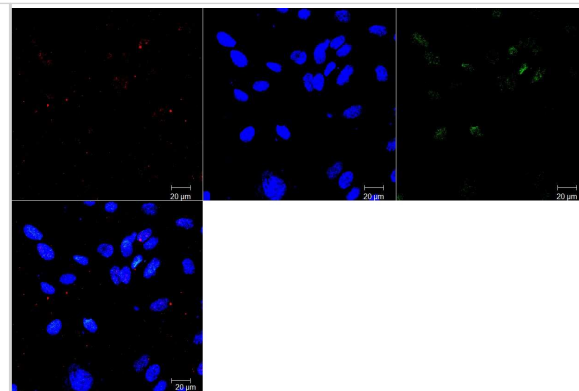
Flow Cytometry: ABCG2/CD338 Antibody (3G8) [NBP2-22124] - Analysis of HepG2 cells using ABCG2 mouse mAb (green) and negative control (purple).



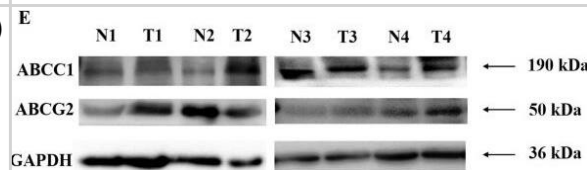
ELISA: ABCG2/CD338 Antibody (3G8) [NBP2-22124] - Red: Control Antigen (100ng), Purple: Antigen (10ng), Green: Antigen (50ng), Blue: Antigen (100ng).



Immunocytochemistry/Immunofluorescence: Mouse Monoclonal ABCG2/CD338 Antibody (3G8) [NBP2-22124] - Human brain microvascular endothelial cells stained for cilia (red) and ABCG2 (green) and nuclear DAPI (blue). Image from a verified customer review.



(A–D) Gene expression of drug transporters in breast cancer patients (A) ABCC1, (B) ABCG2 in local cohort (C) ABCC1, (D) ABCG2 in TCGA cohort and (E–G) Protein expression of drug transporters (E) Representative blots in adjacent normal (N) and tumor (T) tissues, (F) Densitometric analysis of ABCG2 and (G) ABCC1 levels in adjacent normal and tumor tissues. Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/36309544>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Publications

Fridman LB, Knerler S, Price AS et al. Cocaine Regulates Antiretroviral Therapy CNS Access Through Pregnane-X Receptor-Mediated Drug Transporter and Metabolizing Enzyme Modulation at the Blood Brain Barrier bioRxiv 2023-08-02 [PMID: 37546800] (Western Blot)

Bhadwal P, Randhawa V, Vaiphei K et al. Clinical relevance of CERK and SPHK1 in breast cancer and their association with metastasis and drug resistance Scientific reports 2022-10-29 [PMID: 36309544] (WB, Human)

Details:

Dilution used in WB 1:1000

Yamamoto S, Fukuhara H, Seki H Et Al. Predictors of therapeutic efficacy of 5-aminolevulinic acid-based photodynamic therapy in human prostate cancer Photodiagnosis and photodynamic therapy 2021-07-21 [PMID: 34303032] (IHC-P)

Huang R, Zhu L, Zhang Y XIST lost induces ovarian cancer stem cells to acquire taxol resistance via a KMT2C-dependent way Cancer cell international 2020-09-04 [PMID: 32943985] (WB, Human)

Sridharan S, Robeson M, Bastihalli-Tukaramrao D, et al. Targeting of the Eukaryotic Translation Initiation Factor 4A Against Breast Cancer Stemness Front Oncol 2019-12-06 [PMID: 31867270] (WB, Human)

Erdogan S, Turkecul K, Dibirdik I et al. Midkine downregulation increases the efficacy of quercetin on prostate cancer stem cell survival and migration through PI3K/AKT and MAPK/ERK pathway Biomed. Pharmacother. 2018-08-21 [PMID: 30142541] (WB, Human)

Agarwalla P, Mukherjee S, Sreedhar B, Banerjee R. Glucocorticoid receptor-mediated delivery of nano gold-witahaferin conjugates for reversal of epithelial-to-mesenchymal transition and tumor regression. Nanomedicine (Lond) 2016-10-01 [PMID: 27622735]

Mondal SK, Jinka S, Pal K et al. Glucocorticoid Receptor-Targeted Liposomal Codelivery of Lipophilic Drug and Anti-Hsp90 Gene: Strategy to Induce Drug-Sensitivity, EMT-Reversal, and Reduced Malignancy in Aggressive Tumors. Mol. Pharm. 2016-07-05 [PMID: 27184196] (WB)

Procedures

Flow Cytometry protocol for ABCG2/CD338 Antibody (NBP2-22124)

ABCG2/CD338 Antibody (3G8):

Flow Cytometry Protocol

Solutions and Reagents:

1X PBS

Blocking buffer: 0.5% BSA in 1X PBS

Filter buffer: 0.1% Triton-X100 and Blocking buffer

Ice cold 4% paraformaldehyde (1% solution -optional for storing samples)

Fluorescently-conjugated secondary antibody (various forms)

Protocol

- 2.1. Collect 1×10^6 cells/sample.
- 2.2. Wash cells once with blocking buffer.
- 2.3. Fix cells with 4% paraformaldehyde and incubate at 4C for 30 min.
- 2.4 Permeabilize cells: Add 0.5 ml filter buffer(0.1% Triton-X100 and Blocking buffer) and incubate at 0 degree C for 15 min.
- 2.4. Wash cells once with blocking buffer.
- 2.5. Add 0.5 ml filter buffer and incubate at 0C for 15 min.
- 2.6. Wash cells twice with blocking buffer.
- 2.7. Incubate cells in blocking buffer for 10 min at room temperature.
- 2.8. Add primary antibody at the appropriate dilution and incubate for 30 min at room temperature.
- 2.9. Wash twice with blocking buffer and incubate with fluorescently-conjugated secondary antibody for 30 min at room temperature.
- 2.10. Wash cells twice with blocking buffer.
- 2.11. Re-suspend cells in 1X PBS and analyze on flow cytometry. Samples can be kept in 1% paraformaldehyde at 4C overnight.

Advice: Keep the cells in the dark on ice or at 4C in a fridge until your scheduled time for analysis. Analyze the cells on the flow cytometer as soon as possible.





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Products Related to NBP2-22124

NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB7539	Goat anti-Mouse IgG (H+L) Secondary Antibody [HRP]
NBP1-97005-0.5mg	Mouse IgG1 Isotype Control (MG1)

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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