

Product Datasheet

ABCG2/CD338 Antibody (BXP-21) NB100-2177

Unit Size: 0.25 ml

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

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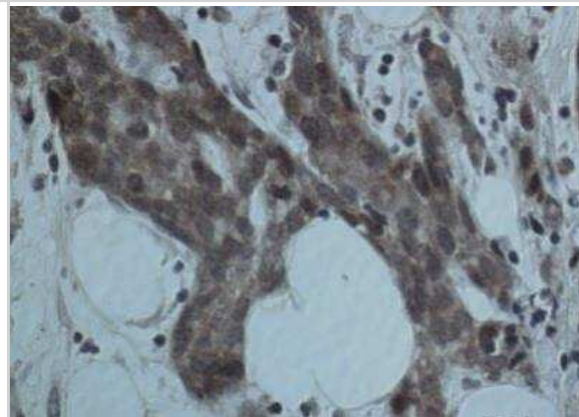


NB100-2177**ABCG2/CD338 Antibody (BXP-21)**

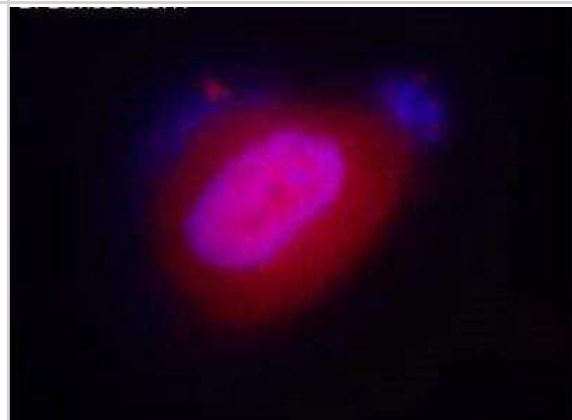
Product Information	
Unit Size	0.25 ml
Concentration	This product is unpurified. The exact concentration of antibody is not quantifiable.
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	BXP-21
Preservative	0.1% Sodium Azide
Isotype	IgG2a
Purity	Tissue culture supernatant
Buffer	Serum - free Medium with 0.7% BSA
Product Description	
Host	Mouse
Gene ID	9429
Gene Symbol	ABCG2
Species	Human, Rat
Reactivity Notes	Rat reactivity reported in scientific literature (PMID: 29978425).
Marker	Stem Cell Marker
Specificity/Sensitivity	This recognizes an internal epitope of human BCRP (70 kDa), a transmembrane half-transporter. The does not cross-react with the human MDR1, MRP1, and MRP2 gene products.
Immunogen	Fusion protein composed of E. Coli maltose binding protein and BCRP peptide [126 amino acids, 271-396 AA of BCRP.
Product Application Details	
Applications	Western Blot, Chromatin Immunoprecipitation, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunohistochemistry-Paraffin
Recommended Dilutions	Western Blot 1:100-1:2000, Chromatin Immunoprecipitation, Flow Cytometry, Immunohistochemistry 1:10-1:500, Immunocytochemistry/ Immunofluorescence 1:20-1:50, Immunohistochemistry-Paraffin 1:20-1:40, Immunohistochemistry-Frozen 1:20-1:40
Application Notes	ICC: Using immunocytochemistry on acetone-fixed, frozen cytospin preparations. IHC: Using immunohistochemistry on acetone-fixed, frozen sections using rabbit anti-mouse IgG and a APAAP complex. The antibody can be used on formalin-fixed, paraffinembedded human tissues and tumors after pretreatment with 10 mM citric acid, pH 6.0, for 20 minutes. WB: Use at assay dependant dilution.

Images

Immunohistochemistry: ABCG2/CD338 Antibody (BXP-21) [NB100-2177] - Tissue was fixed with formaldehyde, blocked with 3% H₂O₂ for 5 minutes at 20 C and permeabilized with PBS-Tween; antigen retrieval was by heat mediation in a citrate buffer (pH 6). Samples were incubated with primary antibody (1/200 in PBS-Tween) for 1 hour at 20 C. A biotinylated goat anti-mouse polyclonal IgG was used as the secondary antibody.



Chromatin Immunoprecipitation: ABCG2/CD338 Antibody (BXP-21) [NB100-2177] - Staining in MCF7 human breast cancer cells. Cells were fixed in paraformaldehyde and permeabilized using 0.1% Triton X-100. Samples were then blocked using 10% serum for 2 hours at 25 C.



Publications

Doganlar O, Doganlar ZB, Erdogan S, Delen E Antineoplastic multi-drug chemotherapy to sensitize tumors triggers multi-drug resistance and inhibits efficiency of maintenance treatment in glioblastoma cells EXCLI journal 2023-01-04 [PMID: 36660193] (WB, Human)

Hussein N, Ashby CR, Amawi H et al. Cariprazine, A Dopamine D₂/D₃ Receptor Partial Agonist, Modulates ABCG2-Mediated Multidrug Resistance in Cancer. Cancers (Basel) 2018-09-04 [PMID: 30181510] (WB, Human)

Hammad AM, Alasmari F, Sari Y et al. Alcohol and Cocaine Exposure Modulates ABCB1 and ABCG2 Transporters in Male Alcohol-Preferring Rats. Mol. Neurobiol. 2018-07-06 [PMID: 29978425] (WB, Rat)

Hussein N, Amawi H, Karthikeyan C et al. The dopamine D₃ receptor antagonists PG01037, NGB2904, SB277011A, and U99194 reverse ABCG2 transporter-mediated drug resistance in cancer cell lines. Cancer Lett. 2017-03-18 [PMID: 28323029] (ICC/IF)

Liang SC, Yang CY, Tseng JY et al. ABCG2 Localizes to the Nucleus and Modulates CDH1 Expression in Lung Cancer Cells. Neoplasia. 2015-03-01 [PMID: 25810011] (IHC-P, Human)

Venkatraman G, Benesch Mg, Tang X et al. Lysophosphatidate signaling stabilizes nrf2 and increases the expression of genes involved in drug resistance and oxidative stress responses: implications for cancer treatment. FASEB J. 2014-11-14 [PMID: 25398768] (WB, Human)

Svirnovski AI, Shman TV, Serhiyenka TF et al. ABCB1 and ABCG2 proteins, their functional activity and gene expression in concert with drug sensitivity of leukemia cells. Hematology 2009-08-01 [PMID: 19635183]

Ejendal, K et al. The nature of amino acid 482 of human ABCG2 affects substrate transport ATP hydrolysis but not substrate binding. Protein Sci, 15: 1597-1607. 2006-07-01 [PMID: 16815914]



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Limitations

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