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DATA SHEET

Mouse Anti-ABCG2/BCRP/CD338 [B1]: MC0582, MC0582RTU7

Intended Use: For Research Use Only

Description: Breast Cancer Resistance Protein (BCRP) is a 70 kDa ATP-Binding Cassette membrane transport protein involved in multidrug resistance. BCRP may be over-expressed in cancer cell lines selected with doxorubicin / verapamil, topotecan or mitoxantrone. Xenobiotic transporter that may play an important role in the exclusion of xenobiotics from the brain. May be involved in brain-to-blood efflux. Appears to play a major role in the multidrug resistance phenotype of several cancer cell lines. When overexpressed, the transfected cells become resistant to mitoxantrone, daunorubicin and doxorubicin, display diminished intracellular accumulation of daunorubicin, and manifest an ATP-dependent increase in the efflux of rhodamine 123.

Specifications:

Clone:	B1
Source:	Mouse
Isotype:	IgG1k
Reactivity:	Human
Immunogen:	Human ABCG2 internal region aa 301-370
Localization:	Membrane
Formulation:	Antibody in PBS pH7.4, containing BSA and ≤ 0.09% sodium azide (NaN3)
Storage:	Store at 2°- 8°C
Applications:	IHC, ELISA, ICC/IF, IP, WB

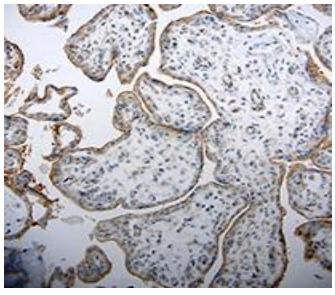
Package:

Description	Catalog No.	Size
ABCG2/BCRP/CD338 Concentrated	MC0582	1 ml
ABCG2/BCRP/CD338 Prediluted	MC0582RTU7	7 ml

IHC Procedure*:

Positive Control Tissue:	Human breast cancer
Concentrated Dilution:	50-200
Pretreatment:	Tris EDTA pH9.0 15 minutes Pressure Cooker or 30-60 minutes water bath at 95°-99°C
Incubation Time and Temp:	30-60 minutes @ RT
Detection:	Refer to the detection system manual

* Result should be confirmed by an established diagnostic procedure.



FFPE human placenta tissue stained with anti-ABCG2 using DAB

References:

1. Expressions of ABCG2, CD133, and Podoplanin in Salivary Adenoid Cystic Carcinoma. Li W, et al. Biomed Res Int. 132349, 2014.
2. CES2, ABCG2, TS and Topo-I primary and synchronous metastasis expression and clinical outcome in metastatic colorectal cancer patients treated with first-line FOLFIRI regimen. Silvestris N, et al. Int J Mol Sci 15:15767-77, 2014.
3. In vitro drug response and efflux transporters associated with drug resistance in pediatric high grade glioma and diffuse intrinsic pontine glioma. Veringa SJ, et al. PLoS One 8:e61512, 2013.
4. Neoadjuvant chemotherapy induces expression levels of breast cancer resistance protein that predict disease-free survival in breast cancer. Kim B, et al. PLoS One 8:e62766, 2013.

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