

Technical Data Sheet

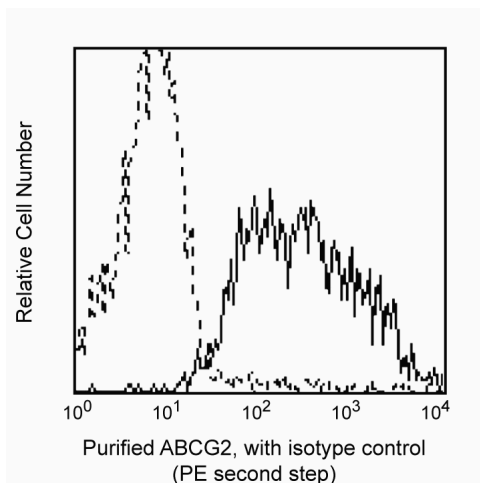
Purified Mouse Anti-Human CD338

Product Information

Material Number:	552823
Alternate Name:	ABCG2; ABCP; BCRP; BMDP; MXR1; ABC15; BCRP1; CDw338; EST157481; MGC10
Size:	0.1 mg
Concentration:	0.5 mg/ml
Clone:	5D3
Immunogen:	Human ABCG2-transfected Mouse cells
Isotype:	Mouse IgG2b, κ
Reactivity:	QC Testing: Human
Storage Buffer:	Aqueous buffered solution containing $\leq 0.09\%$ sodium azide.

Description

Monoclonal antibody 5D3 reacts with a cell-surface epitope of ABCG2 (BCRP1), a multi-drug resistance protein that is a member of ATP binding cassette (ABC) transporters. It is highly expressed on primitive stem cells as identified by the "side-population" (SP) phenotype. This SP phenotype is based on the efflux of fluorescent dyes such as Rhodamine 123 and Hoechst 33342. The expression of ABCG2 appears to be highly conserved as it has been identified in various species. Studies show that highly purified murine stem cells express BCRP1 mRNA and this expression declines sharply as the stem cells express CD34. The highest levels of BCRP1 mRNA expression have been seen in KDR+ human stem cells. ABCG2/BCRP1 was clustered as CD338 in the HLDA8 workshop.



Profile of CD338 expression on MCF7-BCRP cells surface analyzed by flow cytometry. Second step staining with Cat. No. 550589.

Preparation and Storage

Store undiluted at 4°C.

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

Application Notes

Application

Flow cytometry	Routinely Tested
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Suggested Companion Products

Catalog Number	Name	Size	Clone
555740	Purified Mouse IgG2b κ Isotype Control	0.1 mg	27-35
550589	PE Goat Anti-Mouse Ig (Multiple Adsorption)	0.2 mg	Polyclonal
554656	Stain Buffer (FBS)	500 ml	(none)

Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.
3. Please refer to www.bdbiosciences.com/pharmingen/protocols for technical protocols.

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References

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- Ozvegy-Laczka C, Laczkó R, Hegedus, et al. Interaction with the 5D3 Monoclonal Antibody Is Regulated by Intramolecular Rearrangements but Not by Covalent Dimer Formation of the Human ABCG2 Multidrug. *J Biol Chem*. 2008; 283(38):26059-26070. (Clone-specific: Flow cytometry)
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