

CD338 (ABCG2) Monoclonal Antibody (5D3), Biotin, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Human
Published Species	Virus, Human, Mouse
Host/Isotype	Mouse / IgG2b, kappa
Recommended Isotype Control	Mouse IgG2b kappa Isotype Control (eBMG2b), Biotin, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	5D3
Conjugate	Biotin
Form	Liquid
Concentration	0.5 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_466956

Applications	Tested Dilution	Publications
Western Blot (WB)	-	2 Publications
Immunohistochemistry (IHC)	-	2 Publications
Immunocytochemistry (ICC/IF)	-	3 Publications
Flow Cytometry (Flow)	1 µg/test	5 Publications

Product Specific Information

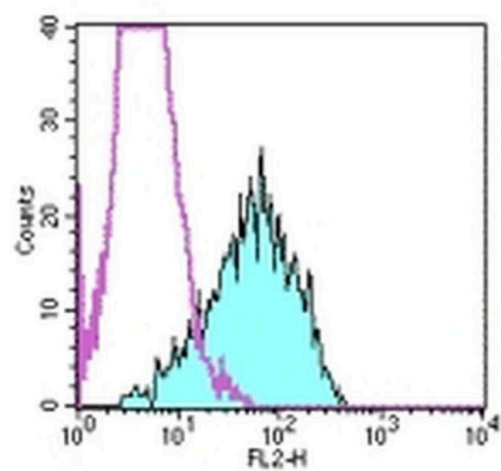
Description: The 5D3 monoclonal antibody reacts with the extracellular portion of the human ABCG2 protein, also known as Bcrp1 and MXR. The ABCG2 gene, a member of the multi-drug resistance (MDR) family, is highly expressed on primitive 'side-population' (SP) stem cells, which are defined by the efflux of fluorescent dyes such as Rhodamine 123 and Hoechst 33342. In the bone marrow, about 0.05% of cells display the low fluorescence and are highly enriched for repopulating cells. The SP cells, which express low or undetectable levels of CD34, have been identified in multiple species. In addition, expression of ABCG2 appears to be highly conserved.

Applications Reported: The 5D3 antibody has been reported for use in flow cytometric analysis.

Applications Tested: The 5D3 antibody has been tested by flow cytometric analysis of human ABCG2 transfected cells and normal human peripheral blood cells. This can be used at less than or equal to 1 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10⁵ to 10⁸ cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For CD338 (ABCG2) Monoclonal Antibody (5D3), Biotin, eBioscience™



CD338 (ABCG2) Antibody (13-8888-82) in Flow
Staining of MCF/huBCRP-1 transfected cells with 0.5 µg of Anti-Mouse IgG2b Biotin (Product # 13-4732-85) (open histogram) or 0.5 µg of Anti-Human CD338 (ABCG2) Biotin followed by Streptavidin PE (Product # 12-4317-87) (filled histogram). Total viable cells were used for analysis.

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Western Blot (2)

<p>Stem cells (Dayton, Ohio)</p> <p>Regulation and expression of the ATP-binding cassette transporter ABCG2 in human embryonic stem cells.</p> <p>"Published figure using CD338 (ABCG2) monoclonal antibody (Product # 13-8888-82) in Immunofluorescence"</p> <p>Authors: Padmanabhan R,Chen KG,Gillet JP,Handley M,Mallon BS,Hamilton RS,Park K,Varma S,Mehaffey MG,Robey PG,McKay RD,Gottesman MM</p>	<p>Year 2012</p> <p>Species Human</p>
<p>Biochemistry</p> <p>Identification of proline residues in or near the transmembrane helices of the human breast cancer resistance protein (BCRP/ABCG2) that are important for transport activity and substrate specificity.</p> <p>"Published figure using CD338 (ABCG2) monoclonal antibody (Product # 13-8888-82) in Western Blot"</p> <p>Authors: Ni Z,Bikadi Z,Shuster DL,Zhao C,Rosenberg MF,Mao Q</p>	<p>Year 2011</p> <p>Species Human</p>

Immunohistochemistry (2)

<p>American journal of physiology. Cell physiology</p> <p>ABCG2pos lung mesenchymal stem cells are a novel pericyte subpopulation that contributes to fibrotic remodeling.</p> <p>"Published figure using CD338 (ABCG2) monoclonal antibody (Product # 13-8888-82) in Flow Cytometry"</p> <p>Authors: Marriott S,Baskir RS,Gaskill C,Menon S,Carrier EJ,Williams J,Talati M,Helm K,Alford CE,Kropski JA,Loyd J, Wheeler L,Johnson J,Austin E,Nozik-Grayck E,Meyrick B,West JD,Klemm DJ,Majka SM</p>	<p>Year 2014</p>
<p>PloS one</p> <p>Human prostate side population cells demonstrate stem cell properties in recombination with urogenital sinus mesenchyme.</p> <p>"Published figure using CD338 (ABCG2) monoclonal antibody (Product # 13-8888-82) in Immunohistochemistry"</p> <p>Authors: Foster BA,Gangavarapu KJ,Mathew G,Azabdaftari G,Morrison CD,Miller A,Huss WJ</p>	<p>Year 2013</p>

More applications with references on thermofisher.com

- ICC/IF (3)
- Flow (5)

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