

Rat anti-Human CD52 Monoclonal Antibody | anti-CD52 antibody

Rat Anti Human CD52: Amethyst Orange

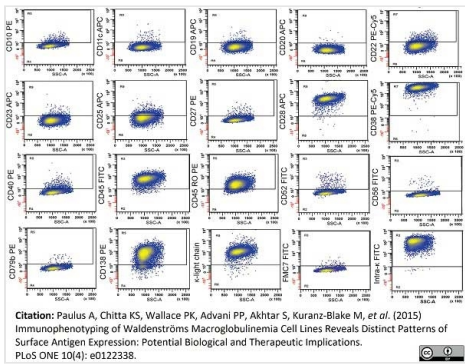
CATALOG # AAA50401	HOST Rat	REACTIVITY Human	APPLICATIONS Flow Cytometry, Functional Assay
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PRODUCT SYNONYMS

CD52; Monoclonal Antibody; Rat Anti Human CD52: Amethyst Orange; CD52 antibody; YTH34.5; anti-CD52 antibody

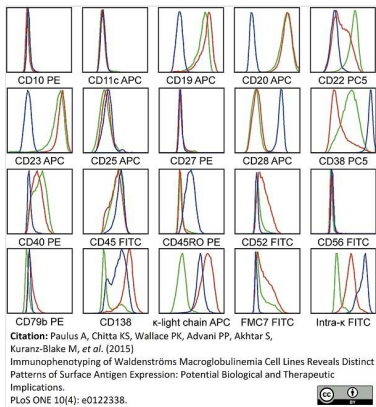
PRODUCT SPECIFICATIONS

Host	Rat
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG2b
Clone Number	YTH34.5
Purity/Purification	Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant.
Form/Format	Purified IgG conjugated to Amethyst Orange - Liquid
Concentration	IgG concentration 0.1 mg/ml (varies by lot)
Sequence Length	61
Applicable Applications for anti-CD52 antibody	FCM/FACS (Flow Cytometry)
Immunogen	Human lymphocytes
Preservative Stabilizers	0.09% Sodium Azide (NaN ₃) 1% Bovine Serum Albumin
Buffer Solution	Phosphate Buffered Saline
Preparation and Storage	Store at 4 degree C or at -20 degree C if preferred. This product should be stored undiluted. Storage in frost free freezers is not recommended. This product is photosensitive and should be protected from light. Avoid repeated freezing and thawing as this may denature the antibody. This product contains a precipitate we recommend microcentrifugation before use.



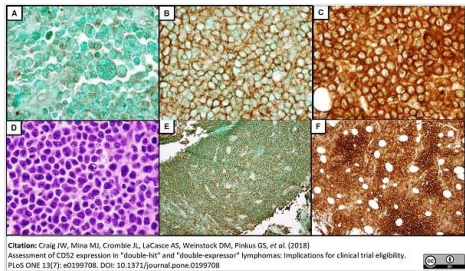
Application Data

FITC Conjugated Mouse anti Human CD52 antibody, clone YTH34.5 used for the evaluation of CD52 expression on RPCI-WM1 cells by flow cytometry. Image caption: Expression of WM-specific antigens present on RPCI-WM1. For antigen detection, fluorescein (FITC), phycoerythrin (PE), phycoerythrin—cyanine 5 (PC5) or allophycocyanin (APC) conjugates of various antigen-specific antibodies were used. Flow cytometry shows the RPCI-WM1 cell line to be CD10, 11c, 19, 20, 23, 27, 40, 52 and 79b negative and CD22, 28, 38, 45, 45RO, 38, 138, ? light chain and intracellular-? positive. From: Paulus A, Chitta KS, Wallace PK, Advani PP, Akhtar S, Kuranz-Blake M, et al. (2015) Immunophenotyping of Waldenström's Macroglobulinemia Cell Lines Reveals Distinct Patterns of Surface Antigen Expression: Potential Biological and Therapeutic Implications. PLoS ONE 10(4): e0122338. This image is from an open access article distributed under the terms of the Creative Commons Attribution License.



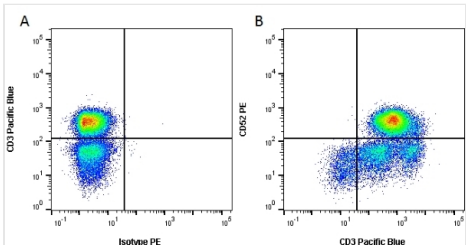
Application Data

Figure A. FITC conjugated Mouse anti Human CD52 antibody, clone YTH34.5 used for the evaluation of CD52 expression on human cell lines by flow cytometry. Image caption: WM-specific antigen expression compared across RPCI-WM1, BCWM.1 and MWCL-1 cell lines. Fluorescein (FITC), phycoerythrin (PE), phycoerythrin—cyanine 5 (PC5) or allophycocyanin (APC) conjugates of various antibodies were used as presented above. All cell lines were negative for CD10 and 11c. Blue line indicates RPCI-WM1 antigen expression, red line indicates MWCL-1 antigen expression and green line indicates antigen expression in BCWM.1 cell line. Only BCWM.1 an MWCL-1 were CD19+, CD20+ and FMC7+. Expression of CD138 and ?-light-chain was seen only on MWCL-1 and RPCI-WM1 cells. CD28 expression was markedly more observable on RPCI-WM1 tumor cells as compared to MWCL-1 or BCWM.1. From: Paulus A, Chitta KS, Wallace PK, Advani PP, Akhtar S, Kuranz-Blake M, et al. (2015) Immunophenotyping of Waldenström's Macroglobulinemia Cell Lines Reveals Distinct Patterns of Surface Antigen Expression: Potential Biological and Therapeutic Implications. PLoS ONE 10(4): e0122338. This image is from an open access article distributed under the terms of the Creative Commons Attribution License.



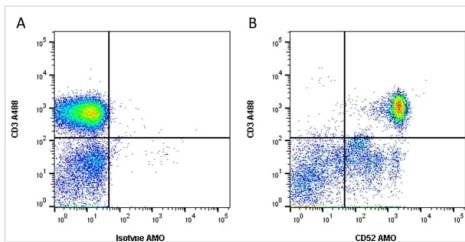
Application Data

Rat anti Human CD52 antibody, clone YTH34.5 used for staining lymphoma tissue specimens by immunohistochemistry on formalin fixed, paraffin embedded sections. Image caption: Positive CD52 IHC from representative DHL cases reveals a range of staining intensities: 1+ (A), 2+ (B), and 3+ (C). H&E stain of the strongly CD52-positive DHL case depicted in C (D). Many cases exhibited uniform staining intensity (E), while others showed variable CD52 expression (F). From: Craig JW, Mina MJ, Crombie JL, LaCasce AS, Weinstock DM, Pinkus GS, et al. (2018) Assessment of CD52 expression in "double-hit" and "double-expressor" lymphomas: Implications for clinical trial eligibility. PLoS ONE 13(7): e0199708. This image is from an open access article distributed under the terms of the Creative Commons Attribution License.



Application Data

Figure A. Pacific Blue conjugated mouse anti human CD3 and RPE conjugated rat IgG2b isotype control. Figure B. Pacific Blue conjugated Mouse anti Human CD3 and RPE conjugated mouse anti human CD52. All experiments performed on red cell lysed human blood gated on lymphocytes in the presence of 10% human serum. Data acquired on the ZE5 Cell Analyzer.



Application Data

Figure A. Alexa Fluor 488 conjugated Mouse anti Human CD3 and Amethyst Orange conjugated Rat IgG2b isotype control. Figure B. Alexa Fluor 488 conjugated Mouse anti Human CD3 and Amethyst Orange conjugated Rat anti Human CD52. All experiments performed on human blood gated on live single lymphocytes, in the presence of 10% human serum. Data acquired on the ZE5 Cell Analyzer

ADDITIONAL INFORMATION

Related Product Information for anti-CD52 antibody	Rat anti Human CD52 antibody, clone YTH34.5 recognizes the human CD52 antigen, also known as CAMPATH-1. The CD52 antigen is a remarkably small but heavily glycosylated peptide attached to the cell surface membrane via a GPI link (Xia et al. 1991). The apparent molecular mass of the native antigen on SDS-PAGE is 25-29 kDa, considerably reduced following N-glycanase treatment (Rowan et al. 1998). CD52 is expressed at high density by lymphocytes, monocytes, eosinophils, thymocytes and macrophages. It is expressed by most lymphoid derived malignancies, although expression on myeloma cells is variable. Humanized versions of CAMPATH-1 specific antibodies are currently in clinical trials for the treatment of a range of lymphoid malignancies (Dearden et al. 2002; Pettitt et al. 2012).
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NCBI AND UNIPROT INFORMATION

NCBI GI #	399214
NCBI GeneID	1043
UniProt Accession #	P31358
NCBI Official Full Name	CAMPATH-1 antigen
NCBI Official Synonym Full Names	CD52 molecule
NCBI Official Symbol	CD52
NCBI Official Synonym Symbols	HE5; CDW52; EDDM5
NCBI Protein Information	CAMPATH-1 antigen
UniProt Protein Name	CAMPATH-1 antigen
UniProt Gene Name	CD52
UniProt Synonym Gene Names	CDW52; HE5; He5

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/cd52-antibody-clone-yth34-5-flow-cytometry-elisa/50401>