

Mouse anti-Mouse CD19 Monoclonal Antibody | anti-CD19 antibody

Mouse Anti-Mouse CD19-APC

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA78670	Mouse	Mouse	Flow Cytometry, Functional Assay

PRODUCT SYNONYMS

CD19; Monoclonal Antibody; Mouse Anti-Mouse CD19-APC; Mouse Anti-Mouse CD19 - Allophycocyanin; Mouse Anti-Mouse CD19; anti-CD19 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Mouse
Clonality	Monoclonal
Isotype	Mouse (129 x C57BL/6) IgA kappa
Clone Number	MB19-1
Specificity	CD19 B cell differentiation antigen, Mr 95 kDa CD19 is a monomeric transmembrane glycoprotein expressed at relatively constant levels throughout B cell development from early pro-B/pre-B cells (i.e., B220⁺/CD43⁺/HSA⁺) through fully differentiated B cell stages. ^{^1-7} Terminally differentiated plasma cells do not express CD19. ^{^1} In humans, the CD19 molecule on the surface of mature B cells associates with CD21 (CR-2) and CD81 (TAPA-1), and this multimolecular complex synergizes with surface immunoglobulin to provide signal transduction and promote cellular activation. ^{^3, 4} All splenic and peritoneal IgM⁺ cells of both B-1 and B-2 lineages are CD19⁺, with B-1 cells expressing higher levels of CD19 than B-2 cells in these sites. ^{^1, 7} Recent studies with CD19-deficient mice have suggested that this molecule may not be required for normal generation and maturation of B cells in the bone marrow. ^{^7}
Form/Format	Allophycocyanin (APC) Conjugate
Sequence Length	556
Applicable Applications for anti-CD19 antibody	FCM/FACS (Flow Cytometry)
Immunogen	CD19 ⁺ mouse pre-B cell line, 300.19
Characterization	To ensure lot-to-lot consistency, each batch of monoclonal antibody is tested by flow cytometry to conform to characteristics of a standard reference reagent.
Preparation and Storage	The purified (UNLB) antibody is supplied as 0.5 mg of purified immunoglobulin in 1.0 mL of 100 mM borate buffered saline, pH 8.2. No preservatives or amine-containing buffer salts added. Store at 2- 8 degree C. The fluorescein (FITC) conjugate is supplied as 0.5 mg in 1.0 mL of PBS/NaN3. Store at 2-8 degree C. The biotin (BIOT) conjugate is supplied as 0.5 mg in 1.0 mL of PBS/NaN3. Store at 2-8 degree C. The R-phycoerythrin (R-PE) and allophycocyanin (APC) conjugates are supplied as 0.1 mg in 1.0 mL of PBS/NaN3 and a stabilizing agent. Store at 2-8 degree C. Do not freeze! The Spectral Red (SPRD), R-phycoerythrin-Cyanine 5.5 (R-PE-CY 5.5), Allophycocyanin-Cyanine 5.5 (APC-CY 5.5), and Allophycocyanin- Cyanine 7 (APC-CY 7) conjugates are supplied as 0.1 mg in 1.0 mL of PBS/NaN3 and a stabilizing agent. Store at 2-8 degree C. Do not freeze! Protect conjugated forms from light. Each reagent is stable for the period shown on the bottle label if stored as directed.

ADDITIONAL INFORMATION

References	1. Sato, S., N. Ono, D.A. Steeber, D.S. Pisetsky, and T.F. Tedder. 1996. J. Immunol. 157:4371-4378. 2. Krop, I., A.R. Fougerolles, R.R. Hardy, M. Allison, M.S. Schlissel, and D.T. Fearon. 1996. Eur. J. Immunol. 26:238. 3. Krop, I., A.L. Shaffer, D.T. Fearon, and M.S. Schlissel. 1996. J. Immunol. 157:48. 4. Fearon, D.T. 1993. Curr. Opin. in Immunol. 5:341. 5. Tedder, T.F., L.-J. Zhou, and P. Engel. 1994. Immunol. Today 15:437. 6. Rickert, R.C., K. Rajewsky, and J. Roes. 1995. Nature 376:352. 7. Engel, P., L.-J. Zhou, D.C. Ord, S. Sato, B. Koller, and T.F. Tedder. 1995. Immunity 3:39. 8. Rolink, A., E. ten Boekel, F. Melchers, D.T. Fearon, I. Krop, and J. Andersson. 1996. J. Exp. Med. 183:187.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	901823
NCBI GeneID	930
UniProt Accession #	P15391; Q96S68; Q9BRD6; A0N0P9; Q6ZNU2; Q71UW0
NCBI Official Full Name	CD19
NCBI Official Synonym Full Names	CD19 molecule
NCBI Official Symbol	CD19
NCBI Official Synonym Symbols	B4; CVID3; MGC12802
NCBI Protein Information	B-lymphocyte antigen CD19; OTTHUMP00000122551; differentiation antigen CD19; T-cell surface antigen Leu-12; B-lymphocyte surface antigen B4
UniProt Protein Name	B-lymphocyte antigen CD19
UniProt Gene Name	CD19
UniProt Entry Name	CD19_HUMAN

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/cd19-antibody-clone-mb19-1-flow-cytometry-elisa/78670>