

## Monoclonal Antibody to CD19 - Biotin

<b>Alternate names:</b>	B-cell marker, B-lymphocyte surface antigen B4, Differentiation antigen CD19, Leu-12
<b>Catalog No.:</b>	AM08032BT-N
<b>Quantity:</b>	0.5 mg
<b>Concentration:</b>	0.5 mg/ml
<b>Background:</b>	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. (Ref.1-7) Terminally differentiated plasma cells do not express CD19. 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. (Ref.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. (Ref.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. (Ref.7)
<b>Uniprot ID:</b>	<a href="#">P25918</a>
<b>NCBI:</b>	<a href="#">NP_033974.2</a>
<b>GeneID:</b>	<a href="#">12478</a>
<b>Host / Isotype:</b>	Mouse / IgA
<b>Clone:</b>	MB19-1
<b>Format:</b>	<b>State:</b> Liquid purified Ig fraction. <b>Buffer System:</b> PBS containing Sodium Azide as preservative. <b>Label:</b> Biotin
<b>Applications:</b>	<b>Flow Cytometry:</b> < / = 1 µg/10e6 cells. (Ref.1-3) Immunoprecipitation. (Ref.1) Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
<b>Specificity:</b>	This antibody is specific to CD19 B cell differentiation antigen (Mr. 95 kDa). <b>Species:</b> Mouse. Other species not tested.
<b>Storage:</b>	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. This product is photosensitive and should be protected from light. Avoid repeated freezing and thawing. Shelf life: one year from despatch.

- General Readings:**
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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**For research and in vitro use only. Not for diagnostic or therapeutic work.**

Material Safety Datasheets are available at [www.acris-antibodies.com](http://www.acris-antibodies.com) or on request.

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