

Monoclonal Antibody to CD19 - FITC

Alternate names:	B-cell marker, B-lymphocyte surface antigen B4, Differentiation antigen CD19, Leu-12
Catalog No.:	AM08032FC-N
Quantity:	0.5 mg
Concentration:	0.5 mg/ml
Background:	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 CD19.1 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. (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)
Uniprot ID:	P25918
NCBI:	NP_033974.2
GeneID:	12478
Host / Isotype:	Mouse / IgA
Clone:	MB19-1
Immunogen:	CD19+ mouse pre-B cell line, 300.19. (Ref.1)
Format:	State: Liquid purified Ig fraction. Buffer System: PBS containing Sodium Azide as preservative. Label: FITC – Fluorescein Isothiocyanate Isomer 1
Applications:	Flow Cytometry: < / = 1 µg/10e6 cells. (Ref.1-3) Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	This antibody is specific to CD19 B cell differentiation antigen (Mr. 95 kDa). Species: Mouse. Other species not tested.
Storage:	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.

For research and in vitro use only. Not for diagnostic or therapeutic work.
Material Safety Datasheets are available at www.acris-antibodies.com or on request.

Antibody Hotline - Technical Questions - Antibody Location Service
Free Call: 0800-2274746 (Germany only) - www.acris-antibodies.com



- 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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