

Product datasheet for **AM08032AC7-N**

Cd19 Mouse Monoclonal Antibody [Clone ID: MB19-1]

Product data:

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|-----------------------|---|
| Product Type: | Primary Antibodies |
| Clone Name: | MB19-1 |
| Applications: | FC |
| Recommended Dilution: | Flow Cytometry: < / = 0.2 µg/10e6 cells. (Ref.1-3) |
| Reactivity: | Mouse |
| Host: | Mouse |
| Isotype: | IgA |
| Clonality: | Monoclonal |
| Immunogen: | CD19+ mouse pre-B cell line, 300.19. (Ref.1) |
| Specificity: | This antibody is specific to CD19 B cell differentiation antigen (Mr. 95 kDa). |
| Formulation: | PBS containing 0.09% Sodium Azide as preservative and a stabilizing agent. Label: APC-Cy7 State: Liquid purified Ig fraction. Label: Allophycocyanin-Cyanine 7 |
| Concentration: | lot specific |
| Conjugation: | APC-Cy7 |
| Storage: | Store the antibody undiluted at 2-8°C. DO NOT FREEZE! This product is photosensitive and should be protected from light. Avoid repeated freezing and thawing. |
| Stability: | Shelf life: one year from despatch. |
| Gene Name: | CD19 antigen |
| Database Link: | Entrez Gene 12478 Mouse P25918 |



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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)

Synonyms:

Leu-12, B-cell marker