

Product datasheet for **AM08032RP-N**

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

Product data:

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: PE State: Liquid purified Ig fraction. Label: R-Phycoerythrin
Concentration:	lot specific
Conjugation:	PE
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:	<u>Entrez Gene 12478 Mouse P25918</u>



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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