

## Product datasheet for **AM26006RP-N**

### CD19 Mouse Monoclonal Antibody [Clone ID: 4G7]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	4G7
Applications:	FC
Recommended Dilution:	<b>Flow Cytometry analysis</b> of human blood cells using 20 µl reagent / 100 µl of whole blood or 10 <sup>6</sup> cells in a suspension.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Human CCL (chronic lymphocytic leukemia) cells
Specificity:	This antibody recognizes CD19 (B4), a 95 kDa type I transmembrane glycoprotein of immunoglobulin superfamily, expressed on B lymphocytes and follicular dendritic cells; it is lost on plasma cells.
Formulation:	Phosphate buffered saline (PBS) containing 15 mM sodium azide Label: PE State: Liquid purified Ig fraction Label: Conjugated with R-Phycoerythrin under optimum conditions. The conjugate is purified by size-exclusion chromatography and adjusted for direct use.
Conjugation:	PE
Storage:	Store the antibody at 2 - 8 °C. DO NOT FREEZE! This product is photosensitive and should be protected from light.
Stability:	Shelf life: one year from despatch.
Gene Name:	CD19 molecule
Database Link:	<a href="#">Entrez Gene 930 Human P15391</a>



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**Background:**

CD19 is a transmembrane glycoprotein of Ig superfamily expressed by B cells from the time of heavy chain rearrangement until plasma cell differentiation. It forms a tetrameric complex with CD21 (complement receptor type 2), CD81 (TAPA-1) and Leu13. Together with BCR (B cell antigen receptor), this complex signals to decrease B cell threshold for activation by the antigen. Besides being signal-amplifying coreceptor for BCR, CD19 can also signal independently of BCR coligation and it turns out to be a central regulatory component upon which multiple signaling pathways converge. Mutation of the CD19 gene results in hypogammaglobulinemia, whereas CD19 overexpression causes B cell hyperactivity.

**Synonyms:**

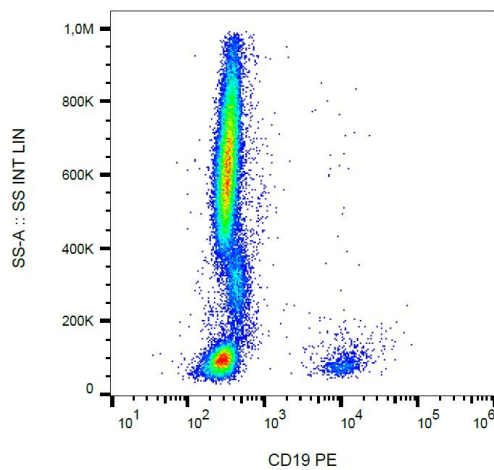
Leu-12, B-cell marker

**Protein Families:**

Druggable Genome, Transmembrane

**Protein Pathways:**

B cell receptor signaling pathway, Hematopoietic cell lineage, Primary immunodeficiency

**Product images:**

Surface staining of human peripheral blood leukocytes with anti-human CD19 (4G7) PE.