

## Product datasheet for **AM50217PU-T**

### CD20 (MS4A1) Mouse Monoclonal Antibody [Clone ID: B9E9]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	B9E9
Applications:	IF, IHC, IP
Recommended Dilution:	<b>ELISA:</b> Use BSA free Antibody for coating. <b>Functional Studies:</b> (Use Antibody without BSA and Azide). <b>Flow Cytometry:</b> 0.5-1 µg/million cells. <b>Immunofluorescence:</b> 0.5-1 µg/ml. <b>Immunoprecipitation:</b> 0.5-1 µg/500 µg protein lysate. <b>Immunohistochemistry on Frozen Sections:</b> 0.5-1.0 µg/ml for 30 min at RT. <b>Positive Control:</b> Daudi, Raji, and U266, and human lymphocytes. In normal lymph nodes and tonsils, CD20 is predominantly detected on B cells in germinal centers.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG2a
Clonality:	Monoclonal
Immunogen:	Lymphoblastoid cell line Daudi.
Specificity:	Recognizes a protein of 33-37kDa, identified as CD20 (Workshop V; Code CD20.12). B9E9 recognizes extracellular domain of CD20. The epitope is similar to or identical to that recognized by other CD20 antibodies including Leu-16 and B1. This Monoclonal Antibody can be used for immunophenotyping of leukemia and malignant cells, B lymphocyte detection in peripheral blood, B cell localization in tissues and B lymphocyte purification by immunosorbent methods. <b>Cellular Localization:</b> Predominantly cell surface with some cytoplasmic.
Formulation:	10mM PBS State: Purified State: Liquid purified IgG fraction from Bioreactor Concentrate Stabilizer: 0.05% BSA Preservative: 0.05% Sodium Azide
Concentration:	lot specific
Purification:	Protein A/G Chromatography



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<b>Conjugation:</b>	Unconjugated
<b>Storage:</b>	Store undiluted at 2-8°C.
<b>Stability:</b>	Shelf life: one year from despatch.
<b>Predicted Protein Size:</b>	33-37 kDa
<b>Gene Name:</b>	membrane spanning 4-domains A1
<b>Database Link:</b>	<a href="#">Entrez Gene 931 Human P11836</a>

**Background:** CD20 is a non-Ig differentiation antigen of B-cells and its expression is restricted to normal and neoplastic B-cells, being absent from all other leukocytes and tissues. CD20 is expressed by pre B-cells and persists during all stages of B-cell maturation but is lost upon terminal differentiation into plasma cells. Protein passes through the membrane 4 times with both ends in cytoplasm and exposes one short and one longer loop to the external environment. CD20 is not glycosylated in resting B cells and its cytoplasmic domains are differentially phosphorylated upon activation. It acts as a calcium channel involved in B-cell activation and cell cycle progression.

**Synonyms:** MS4A1, Leu-16, Bp35, B-cell marker