

36-3537: Anti-CD20 / MS4A1 (B-Cell Marker) Monoclonal Antibody(Clone: B9E9)-CF488

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| Clonality : | Monoclonal |
| Clone Name : | B9E9 |
| Application : | FACS |
| Reactivity : | Human |
| Conjugate : | CF488 |
| Gene : | MS4A1 |
| Gene ID : | 931 |
| Uniprot ID : | P11836 |
| Alternative Name : | APY; ATOPY; B-lymphocyte antigen CD20; B-lymphocyte cell-surface antigen B1; Bp35; Fc epsilon receptor I beta chain; Fc Fragment of IgE high affinity I receptor for beta polypeptide; FCER1B; High affinity immunoglobulin epsilon receptor subunit beta; IgE Fc receptor subunit beta; IGEL; IGER; IGHF1; LEU16; Leukocyte surface antigen Leu-16; Ly44; Membrane spanning 4 domains subfamily A member 2; Membrane-spanning 4-domains subfamily A member 1 (MS4A1) |
| Isotype : | Mouse IgG2a, kappa |
| Immunogen Information : | Lymphoblastoid cell line Daudi |

Description

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 MAb 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. 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.

Product Info

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| Amount : | 0.5 ml at 100µg/ml |
| Content : | Antibody Purified from Bioreactor Concentrate by Protein A/G and conjugated to various reporter molecules. Prepared in 10mM PBS with 0.05% BSA and 0.05% azide. Contact us if you require this Ab in a different format. |
| Storage condition : | Antibody with azide - store at 4 to 8°C. Antibody is stable for 24 months. Non-hazardous. |

Application Note

Flow Cytometry: 5ul per test per one million cells (or 5ul per 100ul of whole blood) Immunofluorescence (1:50-1:100)