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**Antibody to Human CD20**  
RECOMBINANT MONOCLONAL

**Catalog Number:** AB-415  
**Quantity:** 50 micrograms, 500 micrograms, 1 milligram  
**Format:** Sterile-filtered white lyophilized (freeze-dried) powder  
**Host:** CHO

**Background:**

CD20 is a member of the membrane-spanning 4A gene family. Members of this nascent protein family are characterized by common structural features and similar intron/exon splice boundaries and display unique expression patterns among hematopoietic cells and non-lymphoid tissues. CD20 plays a role in the development and differentiation of B-cells into plasma cells. CD20 is localized to 11q12, among a cluster of family members. Alternative splicing of this gene results in two transcript variants which encode the same protein.

**Specificity and Preparation:**

Recombinant Anti-Human CD20 monoclonal antibody produced in CHO is a glycosylated polypeptide chain having a molecular mass of 80 kDa. This antibody was cloned from mouse. CD20 is purified by proprietary chromatographic techniques. Purity is greater than 95.0% as determined by RP-HPLC and SDS-PAGE gel. The antibody is lyophilized from a 0.2- $\mu$ m filtered concentrated (1mg/ml) solution in PBS, pH 7.4. It is fully biologically active when compared to standard determined by the apoptosis assay of Raji cell *in vitro*.

**Usage and Storage:**

It is recommended to reconstitute the lyophilized antibody in sterile 18M $\Omega$ -cm H<sub>2</sub>O at not less than 100  $\mu$ g/ml, which can then be further diluted to other aqueous solutions. Gently spin down material before use; 5-10 seconds in a microfuge should be adequate. Although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution store at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid repeated freezing and thawing.

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