

Recombinant Anti-Human CD20 monoclonal antibody

Human, Recombinant (MS4A1)

Expressed in CHO

Cat. No. CRP08139

Lot. No. (See product label)

PRODUCT INFORMATION

Description: CD20 is a non-glycosylated phosphoprotein expressed on the surface of all mature B-cells. Membrane-spanning 4-domains, subfamily A, member 1, also known as MS4A1, is a human gene. This gene encodes 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 nonlymphoid tissues. This gene encodes a B-lymphocyte surface molecule which plays a role in the development and differentiation of B-cells into plasma cells. This family member 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.

M. W.: approximately 80.0 kDa

Purity: >95% by SDS-PAGE and HPLC analyses

Formulation: Lyophilized from a 0.2µm filtered concentrated (1mg/ml) solution in PBS, pH 7.4.

Specific Activity: Fully biologically active when compared to standard determined by the apoptosis assay of Raji cell in vitro.

Recombinant: Expressed in CHO

Physical Appearance: Sterile Filtered White lyophilized (freeze-dried) powder.

Endotoxin: Less than 1EU/µg of rAnti-CD20 MAb as determined by LAL method.

Reconstitution: We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1% BSA to a concentration of 0.1-1.0 mg/ml. Stock solutions should be apportioned into working aliquots and stored at <-20°C. Further dilutions should be made in appropriate buffered solutions.

Storage: This lyophilized preparation is stable for several weeks at 2-8°C, but should be kept at -20°C for long term storage, preferably desiccated. Upon reconstitution, the preparation is stable for up to one week at 2-8°C. For maximal stability, apportion the reconstituted preparation into working aliquots and store at -20°C to -70°C. Avoid repeated freeze/thaw cycles.

GENE INFORMATION (ANTIGEN)

Gene Name: [MS4A1](#)

Synonyms: B1; S7; Bp35; CD20; MS4A2; LEU-16; MGC3969; membrane-spanning 4-domains, subfamily A, member 1; CD20_HUMAN; Membrane-spanning 4-domains subfamily A member 1; membrane-spanning 4-domains, subfamily A, member 2; B-lymphocyte surface antigen B1; Leu-16; Bp35; CD20 antigen; B-lymphocyte antigen CD20; B-lymphocyte cell-surface antigen B1; CD20 RECEPTOR; CD20 antigen; MS4A1

mRNA Refseq: [NM_021950](#)

Protein Refseq: [NP_068769](#)

MIM: [112210](#)

UniProt ID: P11836

Gene ID: [931](#)

Chromosome Location: 11q12

Pathway: Hematopoietic cell lineage

Function: receptor activity

REFERENCES

1. Fang D, Nguyen TK, Leishear K, et al (2005). A tumorigenic subpopulation with stem cell properties in melanomas. *Cancer Res.* 65 (20): 9328–37.
2. Einfeld DA, Brown JP, Valentine MA, et al. (1988). Molecular cloning of the human B cell CD20 receptor predicts a hydrophobic protein with multiple transmembrane domains. *EMBO J.* 7 (3): 711–7.
3. Polyak MJ, Ayer LM, Szczepek AJ, Deans JP (2003). A cholesterol-dependent CD20 epitope detected by the FMC7 antibody. *Leukemia* 17 (7): 1384–9.

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45-16 Ramsey Road Shirley, NY 11967, USA
Technical Support: T: 631-871-5806 · F: 631-207-8356
E-mail: info@creative-biolabs.com
www.creative-biolabs.com