Mouse Anti-Human CD33C Molecule Monoclonal Antibody

Cat. No. CAB11498MH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Mouse monoclonal antibody to human CD33C molecule.
Species	Human
Source	Mouse
Antigen Description	CMRF35-like molecule 6, also known as CD300 antigen-like family member C, Immunoglobulin superfamily member 16, CMRF35-A1, CD300C and CMRF35, is a single-pass type I membrane protein which belongs to the CD300 family. CD300c / CMRF-35 contains one Ig-like V-type (immunoglobulin-like) domain. CD300c / CMRF-35 is present on the surface of monocytes, neutrophils, a proportion of peripheral blood T-lymphocytes and B-lymphocytes and lymphocytic cell lines. The CD300c (CMRF-35A) and CD300a (CMRF-35H) molecules are leukocyte surface proteins that are part of a larger family of immunoregulatory molecules encoded by a gene complex on human chromosome 17. The CD300a protein contains four ITIMs and is highly homologous to CD300c. CD300a/c RNA and surface expression were downregulated after stimulation of plasmacytoid dendritic cells (pDCs) with TLR7 and TLR9 ligands. Exogenous interferon (IFN)-alpha down-regulated CD300a/c expression, whereas neutralizing IFN-alpha abolished TLR ligand-induced CD300a/c down-regulation. CD300a and CD300c play an important role in the cross-regulation of TNF-alpha and IFN-alpha secretion from pDCs. CD300a and CD300c are indistinguishable on the surface of NK cells.
Specificity	Human CD300C. No cross-reactivity with human cell lysate (293 cell line) in ELISA.

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Immunogen	Recombinant Human CD300C Protein
Isotype	Mouse IgG1
Clone	2B7G9
Purification	Protein A affinity chromatography
Applications	Western Blot; ELISA
Dilution	Western blot: This antibody can be used at 1 - 2 µg/mL with the appropriate secondary reagents to detect Human CD300C in WB. Using a DAB detection system, the detection limit for Human CD300C is approximately 20 ng/lane under reducing conditions. Use of this antibody under non-reducing conditions is not recommended.Direct ELISA: This antibody can be used at 0.5 - 1 µg with the appropriate secondary reagents to detect Human CD300C. The detection limit for Human CD300C is approximately 0.16 ng/well.
Preparation	This antibody was produced from a hybridoma resulting from the fusion of a mouse myeloma with B cells obtained from a mouse immunized with purified, human cell-derived, recombinant Human CD300C. The IgG fraction of the cell culture supernatant was purified by Protein A affinity chromatography.
Format	0.2 µm filtered solution in PBS with 5% trehalose
Storage	This antibody can be stored at 2-8 °C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 °C to -70 °C. Preservative-Free.Sodium azide is recommended to avoid contamination (final concentration 0.05%-0.1%). It is toxic to cells and should be disposed of properly. Avoid repeated freeze-thaw cycles.

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GENE INFORMATION

Gene Name	CD300C CD300c molecule [Homo sapiens]
Official Symbol	CD300C
Synonyms	CD300C; CD300c molecule; CD300c antigen; CMRF35-like molecule 6; CMRF 35A; CMRF35; CMRF35A; IGSF16; LIR; CMRF35 antigen; CD300 antigen-like family member C; immunoglobulin superfamily member 16; CMRF35 leukocyte immunoglobulin-like receptor; CMRF35A leukocyte immunoglobulin-like receptor; CLM-6; CMRF-35; CMRF-35A; CMRF35A1; CMRF35-A1;
Gene ID	10871
mRNA Refseq	NM_006678
Protein Refseq	NP_006669
MIM	606786
UniProt ID	Q08708
Chromosome Location	17q25.2
Function	receptor activity; transmembrane signaling receptor activity;

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