

Mouse Anti-Human CD40 Monoclonal Antibody

Cat. No. DMAB6033MH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Monoclonal Anti-human CD40
Species	Human
Source	Mouse
Antigen Description	CD40 (48 to 50 kDa) is a transmembrane glycoprotein mainly expressed on the surface of B cells and also expressed on monocytes, dendritic cells, and thymic epithelium. CD40 is a member of the tumor necrosis factor (TNF) receptor superfamily, which includes the low affinity nerve growth factor (NGF) receptor and CD95/Fas. CD40 is the receptor for CD40 ligand. CD40L (CD40L, CD154, gp39, and TRAM) belongs to the TNF gene family and is expressed more widely than CD40, predominantly on activated CD4⁺T cells. Following interaction with CD40 ligand, CD40 mediates a number of major immunoregulatory functions, central to the control of thymus dependent humoral immunity and may be critical in the development of cell mediated immune responses. Other biological actions include B cell homotypic adhesion, proliferation, immunoglobulin isotype switch, and secretion.
specificity	human CD40
Target	CD40
Immunogen	anti-μ activated tonsillar human B cells
Isotype	IgG1

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species	Human
Clone	nBc 90
Purification	QMA Hyper D ion exchange chromatography
Applications	N/A
Usage recommendation	This monoclonal antibody may be used between 1-10 µg/ml. 10ng/ml for cellular activation. Optimal dilution should be determined by each laboratory for each application. Coupled antibody: to maintain RT before use.
Storage	-20 °C. KEEP CONTENTS STERILE: no preservative. Purified antibodies: avoid repeated freeze/thaw cycles. Coupled antibodies: glycerol protects from freezing.

GENE INFORMATION

Gene Name	CD40 CD40 molecule,TNF receptor superfamily member 5 [Homo sapiens]
Official Symbol	CD40
Synonyms	CD40;p50;Bp50;CDW40;TNFRSF5;tumor necrosis factor receptor superfamily member 5;CD40L receptor;CD40 type II isoform;B cell-associated molecule;B cell surface antigen CD40;B-cell surface antigen CD40;CD40 antigen (TNF receptor superfamily member 5);tumor n
Gene ID	958
mRNA Refseq	NM_001250
Protein Refseq	NP_001241

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MIM	109535
UniProt ID	P25942
Chromosome Location	20q12-q13.2
Pathway	Adaptive Immune System;Allograft rejection;Asthma;Autoimmune thyroid disease;CD40/CD40L signaling;Cell adhesion molecules (CAMs);Cytokine-cytokine receptor interaction;
Function	enzyme binding;protein binding;receptor activity;signal transducer activity

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