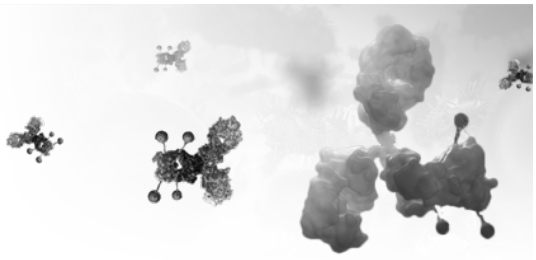

Magic™ Anti-CD40 monoclonal antibody, clone 3B4 (DMAB-L21028)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview	Hybridoma clones have been derived from hybridization of Sp2/0 myeloma cells with spleen cells of Balb/c mice immunized with recombinant human soluble CD40 Ligand / TRAP Analog conjugates with BSA.
Antigen Description	The protein encoded by this gene is a member of the TNF-receptor superfamily. This receptor has been found to be essential in mediating a broad variety of immune and inflammatory responses including T cell-dependent immunoglobulin class switching, memory B cell development, and germinal center formation. AT-hook transcription factor AKNA is reported to coordinately regulate the expression of this receptor and its ligand, which may be important for homotypic cell interactions. Adaptor protein TNFR2 interacts with this receptor and serves as a mediator of the signal transduction. The interaction of this receptor and its ligand is found to be necessary for amyloid-beta-induced microglial activation, and thus is thought to be an early event in Alzheimer disease pathogenesis. Two alternatively spliced transcript variants of this gene encoding distinct isoforms have been reported.
Specificity	Human recombinant sCD40L
Isotype	IgG1
Source/Host	Mouse
Species Reactivity	Human
Clone	3B4
Purification	Chromatography on protein A Sepharose
Conjugate	Unconjugated
Applications	Western blotting

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	Recommended pairs for sandwich immunoassay for detection of native sCD40L in human serum (capture-detection):DMAB-L21027 - DMAB-L21028
Buffer	PBS, pH 7.4, 0.1 % sodium azide (NaN?)
Preservative	0.1% Sodium Azide
Storage	4°C

GENE INFORMATION

Gene Name	CD40 CD40 molecule, TNF receptor superfamily member 5 [Homo sapiens]
Official Symbol	CD40
Synonyms	CD40; CD40 molecule, TNF receptor superfamily member 5; TNFRSF5,tumor necrosis factor receptor superfamily, member 5; tumor necrosis factor receptor superfamily member 5; Bp50; p50; Tumor necrosis factor receptor superfamily , member 5; AI326936; B cell associated molecule CD40; B cell surface antigen CD40; B cell-associated molecule; B-cell surface antigen CD40; Bp50; CD 40; CD40; CD40 antigen (TNF receptor superfamily member 5); CD40 antigen; CD40 molecule; CD40 molecule, TNF receptor superfamily member 5; CD40 protein; CD40 type II isoform; CD40L receptor; CDw40; GP39; HIGM1; IGM; IMD3; MGC9013; Nerve growth factor receptor related B lymphocyte activation molecule; OTTHUMP00000031699; OTTHUMP00000031700; p50; T-BAM; TBAM; TNF receptor superfamily member 5; TNFRSF5; TNR5_HUMAN; TRAP; Tumor necrosis factor receptor superfamily member 5; Tumor necrosis factor receptor superfamily member 5 precursor; Tumor necrosis factor receptor superfamily, member 5, isoform CRA_a; CD40L receptor; OTTHUMP00000031699; OTTHUMP00000031700; OTTHUMP00000031701; CD40 type II isoform; B cell-associated molecule; B cell surface antigen CD40; B-cell surface antigen CD40; CD40 antigen (TNF receptor; CDW40; TNFRSF5;
Entrez Gene ID	958
Protein Refseq	NP_001241
UniProt ID	P25942
Chromosome Location	20q12-q13.2
Pathway	Adaptive Immune System, organism-specific biosystem; Allograft rejection, organism-specific biosystem; Allograft rejection, conserved biosystem; Asthma, organism-specific biosystem; Asthma, conserved biosystem; Autoimmune thyroid disease, organism-specific biosystem; Autoimmune thyroid disease, conserved biosystem; CD40/CD40L signaling, organism-specific biosystem; Cell adhesion molecules (CAMs), organism-specific biosystem; Cell adhesion molecules (CAMs), conserved biosystem; Cytokine-cytokine

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Function	enzyme binding; protein binding; receptor activity; signal transducer activity;

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