

Mouse CD40 Monoclonal Antibody | anti-CD40 antibody

CD40 Antibody (C-term) (Ascites)

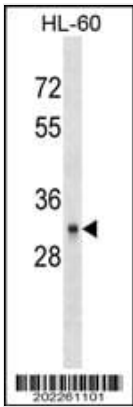
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA283478	Mouse	Human (Predicted Reactivity: Horse, Mouse, Pig)	ELISA, Western Blot

PRODUCT SYNONYMS

CD40; Monoclonal Antibody; CD40 Antibody (C-term) (Ascites); Tumor necrosis factor receptor superfamily member 5; B-cell surface antigen CD40; Bp50; CD40L receptor; CDw40; TNFRSF5; anti-CD40 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human (Predicted Reactivity: Horse, Mouse, Pig)
Clonality	Monoclonal
Isotype	IgG1
Clone Number	647CT13.2.4
Specificity	This CD40 antibody is generated from mice immunized with a KLH conjugated synthetic peptide between 247-276 amino acids from the C-terminal region of human CD40.
Form/Format	Mouse monoclonal antibody supplied in crude ascites with 0.09% (W/V) sodium azide.
Sequence Positions	247-276
Sequence Length	277
Applicable Applications for anti-CD40 antibody	ELISA, WB (Western Blot)
Calculated MW	30619
Antigen Region	247-276
Antigen Source	HUMAN
Function	Receptor for TNFSF5/CD40LG. Transduces TRAF6- and MAP3K8-mediated signals that activate ERK in macrophages and B cells, leading to induction of immunoglobulin secretion.
Cellular Location	Isoform I: Cell membrane; Single-pass type I membrane protein
Tissue Location	B-cells and in primary carcinomas.
Preparation and Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.



WB (Western Blot)
CD40 Antibody (C-term)(Ascites) western blot analysis in HL-60 cell line lysates (35ug/lane).This demonstrates the CD40 antibody detected the CD40 protein (arrow).

ADDITIONAL INFORMATION

Related Product Information for anti-CD40 antibody	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.
Product Categories/Family for anti-CD40 antibody	Cardiovascular; Immunology; Signal Transduction
References	Rodriguez-Rodriguez, L., et al. J. Rheumatol. 37(10):2076-2080(2010) Lewis, J.P., et al. Genomics 96(4):211-219(2010) Bailey, S.D., et al. Diabetes Care 33(10):2250-2253(2010) Blanco-Kelly, F., et al. PLoS ONE 5 (7), E11520 (2010) : Soliman, M.A., et al. Egypt J Immunol 16(1):61-70(2009)

NCBI AND UNIPROT INFORMATION

NCBI GI #	4507581
NCBI GeneID	958
NCBI Accession #	NP_001241.1; NP_690593.1
NCBI GenBank Nucleotide #	NM_001250.5
UniProt Accession #	P25942; Q53GN5; Q5JY15; Q5U007; Q7M4Q8; Q86YK5; Q9BYU0; E1P5S9
NCBI Official Full Name	tumor necrosis factor receptor superfamily member 5 isoform 1
NCBI Official Synonym Full Names	CD40 molecule, TNF receptor superfamily member 5
NCBI Official Symbol	CD40

NCBI Official Synonym Symbols	p50; Bp50; CDW40; TNFRSF5
NCBI Protein Information	tumor necrosis factor receptor superfamily member 5
UniProt Protein Name	Tumor necrosis factor receptor superfamily member 5
UniProt Gene Name	CD40
UniProt Synonym Gene Names	TNFRSF5
UniProt Entry Name	TNR5_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/cd40-antibody-clone-647ct13-2-4-western-blot-elisa/283478>