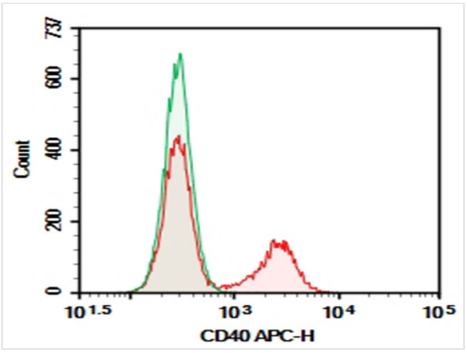
CD40 Antibody – Rat

PRODUCT OVERVIEW

Product Name	CD40, Antibody
Full Product Name	Purified Anti-Mouse CD40 Antibody [3/23]
Product Gene Name	anti-CD40 antibody
Product Synonym Names	CD40 (protein); CD40 molecule; CDW40; IMD; B-cell surface antigen CD; Tumor necrosis factor receptor superfamily member; HIGM; Tnfrsf; HIGM1; I326936; IGM; IMD3; p50; T-BAM; TRAP; Bp50; CD40; Tnfrsf5; Tumor necrosis factor receptor superfamily member 5; B-cell surface antigen CD40; CD40L receptor; gp39 R; TNFRSF5
Isotype	IgG2a, kappa
Clone Number	3/23
Host	Rat
Species Reactivity	Mouse
Preparation and Storage	Store at 4 degree C valid for 12 months or -20 degree C valid for long term storage, avoid freeze/thaw cycles.
Molecular Weight	28,878 Da
3D Structure	ModBase 3D Structure for P27512
Conjugation	Unconjugated
Product Categories/Family for anti-CD40 antibody	Antibodies and Reagents; Primary Antibodies; Flow Cytometry Antibodies
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-CD40 antibody	Flow Cytometry (FC/FACS)
Related Product Information for anti-CD40 antibody	MBS2585237 is an antibody targeting CD40. Also known as Purified Anti-Mouse CD40 Antibody [3/23]. Reactive in Mouse. Host: Rat.
Other Notes	Small volumes of anti-CD40 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



Flow Cytometry (FC/FACS) of anti-CD40 antibody
Verified Samples in FCM: C57/BL6 Mouse splenocytes

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CD40. It may not necessarily be applicable to this product.

NCBI GI #	172046819
NCBI GeneID	21939
NCBI Accession #	P27512.3
UniProt Primary Accession #	P27512
UniProt Secondary Accession #	Q3TS33; Q3TSL2; Q3U799; Q3U7C9; Q3UBH3; Q542B1; Q8K2X6; Q99NE0; Q99NE1; Q99NE2; Q99NE3
UniProt Related Accession #	P27512
NCBI Official Full Name	Tumor necrosis factor receptor superfamily member 5
NCBI Official Synonym Full Names	CD40 antigen
NCBI Official Symbol	Cd40
NCBI Official Synonym Symbols	IGM; p50; Bp50; GP39; IMD3; TRAP; HIGM1; T-BAM; Tnfrsf5; AI326936
UniProt Protein Name	Tumor necrosis factor receptor superfamily member 5
UniProt Synonym Protein Names	B-cell surface antigen CD40; Bp50; CD40L receptor; CD_antigen: CD40
Protein Family	Tumor necrosis factor receptor superfamily
UniProt Gene Name	Cd40
UniProt Synonym Gene Names	Tnfrsf5
UniProt Entry Name	TNR5_MOUSE
NCBI Protein Information	tumor necrosis factor receptor superfamily member 5; CD40L receptor; B-cell surface antigen CD40; T-cell differentiation antigen; tumor necrosis factor receptor superfamily, member 5
UniProt Comments for CD40	CD40: a member of the TNF-receptor superfamily. This receptor for CD40L mediates a broad variety of immune and inflammatory responses including T cell-dependent immunoglobulin class switching, memory B cell development, and germinal center formation. Defects in CD40 are the cause of hyper-IgM immunodeficiency type 3 (HIGM3). HIGM3 is an autosomal recessive disorder which includes an inability of B cells to undergo isotype switching, one of the final differentiation steps in the humoral immune system, an inability to mount an antibody-specific immune response, and a lack of germinal center formation. Two alternatively spliced isoforms have been reported. Isoform I is a type I membrane protein; isoform II is secreted. Protein type: Membrane protein, integral; Receptor, cytokine Cellular Component: extracellular space; cell surface; membrane; intracellular membrane-bound organelle; cell; cytoplasm; integral to membrane; plasma membrane; extracellular region; external side of plasma membrane Molecular Function: protein binding; enzyme binding; ubiquitin protein ligase binding; antigen binding Biological Process: positive regulation of isotype switching to IgG isotypes; regulation of immune response; B cell activation; immune system process; positive regulation of interleukin-12 production; immune response-regulating cell surface receptor signaling pathway; activation of NF-kappaB transcription factor; cellular calcium ion homeostasis; positive regulation of MAP kinase activity; positive regulation of tyrosine phosphorylation of Stat1 protein; protein kinase B signaling cascade; positive regulation of B cell proliferation; positive regulation of transcription from RNA polymerase II promoter; positive regulation of protein amino acid phosphorylation; inflammatory response; defense response to virus; regulation of immunoglobulin secretion
Research Articles on CD40	**1.** These results indicate that CD40 plays distinct roles in different tissues and, unexpectedly, plays an important role in maintaining immune homeostasis in epididymal adipose tissue.
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