CD154, Soluble (CD40LG) Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	CD154, soluble (CD40LG), Monoclonal Antibody
Full Product Name	CD154, soluble (CD40 Ligand, CD40-L, CD40L, CD40LG, gp39, hCD40L, HIGM1, IGM, IMD3, T-BAM, T-cell Antigen GP39, TNF-related Activation Protein, TRAP, Tumor Necrosis Factor Ligand Superfamily Member 5, TNF Ligand Superfamily Member 5, TNFSF5)
Product Gene Name	anti-CD40LG antibody
Product Synonym Names	Anti -CD154, soluble (CD40 Ligand, CD40-L, CD40L, CD40LG, gp39, hCD40L, HIGM1, IGM, IMD3, T-BAM, T-cell Antigen GP39, TNF-related Activation Protein, TRAP, Tumor Necrosis Factor Ligand Superfamily Member 5, TNF Ligand Superfamily Member 5, TNFSF5)
Clonality	Monoclonal
Isotype	IgG1
Clone Number	9A158
Host	Mouse
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH7.4, 0.09% sodium azide.
Purity/Purification	Affinity Purified Purified by Protein A affinity chromatography.
Specificity	Recognizes human CD154, a 32kD glycoprotein also known as CD40 ligand.
Preparation and Storage	May be stored at 4 degree C for short-term only. For long-term storage and to avoid repeated freezing and thawing, aliquot and store at -20 degree C. Aliquots are stable for at least 12 months at -20 degree C. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap. Further dilutions can be made in assay buffer.
Molecular Weight	29,274 Da
Chromosome Location	Chromosome: X; NC_000023.10 (135730281..135742549). Location: Xq26
OMIM	300386
3D Structure	ModBase 3D Structure for P29965
Immunogen	Recombinant human soluble CD154 conjugated to BSA.
Hybridoma	Spleen cells from immunized Balb/c mice were fused with cells of the myeloma Sp2/0 cell line.
Product Categories/Family for anti-CD40LG antibody	Antibodies; Abs to CD Markers
Applications Tested/Suitable for anti-CD40LG antibody	ELISA (EL/EIA), Western Blot (WB)
Application Notes for anti-CD40LG antibody	Suitable for use in ELISA and Western Blot.
Related Product Information for anti-CD40LG antibody	CD154 is a member of the TNF family of molecules. It binds to CD40 and acts as a co-stimulatory molecule by activating antigen presenting cells, such as B cells. While CD154 is mostly found expressed on activated T cells.

Other Notes	Small volumes of anti-CD40LG 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.
Searchable Terms for CD40LG purchase	MBS633272 is an antibody targeting CD40LG. Also known as CD154, soluble (CD40 Ligand, CD40-L, CD40L, CD40LG, gp39, hCD40L, HIGM1, IGM, IMD3, T-BAM, T-cell Antigen GP39, TNF-related Activation Protein, TRAP, Tumor Necrosis Factor Ligand Superfamily Member 5, TNF Ligand Superfamily Member 5, TNFSF5). Reactive in Human. Host: Mouse.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CD40LG. It may not necessarily be applicable to this product.

NCBI GI #	4557433
NCBI GeneID	959
NCBI Accession #	NP_000065.1
UniProt Primary Accession #	P29965
UniProt Related Accession #	P29965
GenBank Nucleotide #	NM_000074.2
NCBI Official Full Name	CD40 ligand
NCBI Official Synonym Full Names	CD40 ligand
NCBI Official Symbol	CD40LG
NCBI Official Synonym Symbols	IGM; IMD3; TRAP; gp39; CD154; CD40L; HIGM1; T-BAM; TNFSF5; hCD40L
UniProt Protein Name	CD40 ligand
UniProt Synonym Protein Names	T-cell antigen Gp39; TNF-related activation protein; TRAP; Tumor necrosis factor ligand superfamily member 5
Protein Family	CD40 ligand
UniProt Gene Name	CD40LG
UniProt Synonym Gene Names	CD40L; TNFSF5; TRAP; CD40-L; TRAP
UniProt Entry Name	CD40L_HUMAN
NCBI Protein Information	CD40 ligand; CD40-L; CD40 antigen ligand; T-cell antigen Gp39; T-B cell-activating molecule; TNF-related activation protein; tumor necrosis factor (ligand) superfamily member 5
NCBI Summary for CD40LG	The protein encoded by this gene is expressed on the surface of T cells. It regulates B cell function by engaging CD40 on the B cell surface. A defect in this gene results in an inability to undergo immunoglobulin class switch and is associated with hyper-IgM syndrome. [provided by RefSeq, Jul 2008]

UniProt Comments for CD40LG	CD40LG: Mediates B-cell proliferation in the absence of co- stimulus as well as IgE production in the presence of IL-4. Involved in immunoglobulin class switching. Defects in CD40LG are the cause of X-linked immunodeficiency with hyper-IgM type 1 (HIGM1); also known as X-linked hyper IgM syndrome (XHIM). HIGM1 is an immunoglobulin isotype switch defect characterized by elevated concentrations of serum IgM and decreased amounts of all other isotypes. Affected males present at an early age (usually within the first year of life) recurrent bacterial and opportunistic infections, including Pneumocystis carinii pneumonia and intractable diarrhea due to cryptosporidium infection. Despite substitution treatment with intravenous immunoglobulin, the overall prognosis is rather poor, with a death rate of about 10% before adolescence. Belongs to the tumor necrosis factor family. Protein type: Membrane protein, integral; Cell adhesion Chromosomal Location of Human Ortholog: Xq26 Cellular Component: extracellular space; integral to plasma membrane; integral to membrane; plasma membrane; external side of plasma membrane Molecular Function: cytokine activity; CD40 receptor binding; tumor necrosis factor receptor binding Biological Process: B cell proliferation; platelet activation; regulation of immune response; leukocyte adhesion; positive regulation of interleukin-12 production; immunoglobulin secretion; B cell differentiation; isotype switching; inflammatory response; regulation of immunoglobulin secretion; negative regulation of apoptosis Disease: Immunodeficiency With Hyper-igm, Type 1
Research Articles on CD40LG	**1.** A major part of central and effector memory CD8(+) T cells expresses CD40L, one key molecule for CD4(+) T-cell-mediated help.
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