

Recombinant Mouse Tnfsf5, FLAG-tagged

Cat. No. Tnfsf5-2077M Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Tnfsf5 is produced in <i>HEK 293 Cells</i> . The extracellular domain of mouse CD40L (CD154) (aa 115-260) is fused at the N-terminus to a linker peptide (8 aa) and a FLAG-tag. MW=26kDa.
Species	Mouse
Source	HEK293
ProteinLength	115-260 a.a.
Description	CD154, also called CD40 ligand or CD40L, is a protein that is primarily expressed on activated T cells and is a member of the TNF superfamily of molecules. It binds to CD40 on antigen-presenting cells (APC), which leads to many effects depending on the target cell type. In general, CD40L plays the role of a costimulatory molecule and induces activation in APC in association with T cell receptor stimulation by MHC molecules on the APC. In total CD40L has three binding partners: CD40, $\alpha 5\beta 1$ integrin and $\alpha 11\beta 3$. CD154 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.
Purity	$\geq 90\%$ (SDS-PAGE).
Concentration	0.1mg/ml after reconstitution.

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Formulation	Lyophilized. Contains PBS.
Endotoxin Content	<0.1EU/g purified protein (LAL test; Bio Whittaker).
Reconstitution	Reconstitute each tube with 100µl sterile water. Further dilutions should be made with medium containing 5% fetal calf serum or a carrier protein.
Specificity	Binds to human and mouse CD40.
Biological Activity	Stimulates the proliferation of mouse B cells and dendritic cells. The activity of rmsCD40L increases 1"000-fold (stimulation in the ng/ml range) in the presence of a cross-linking enhancer.
Storage	-20°C.

GENE INFORMATION

Gene Name	Cd40lg CD40 ligand [<i>Mus musculus</i>]
Synonyms	Cd40lg; CD40 ligand; IGM; IMD3; Ly62; TRAP; gp39; CD154; Cd40l; HIGM1; Ly-62; T-BAM; Tnfsf5; OTTMUSP00000019349; tumor necrosis factor (ligand) superfamily, member 5
Gene ID	21947
mRNA Refseq	NM_011616
Protein Refseq	NP_035746
UniProt ID	P27548

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Chromosome Location	X A5; X 18.0 cM
Pathway	Allograft rejection; Asthma; Autoimmune thyroid disease; Cell adhesion molecules (CAMs); Cytokine-cytokine receptor interaction; Primary immunodeficiency; Systemic lupus erythematosus; T cell receptor signaling pathway
Function	cytokine activity; tumor necrosis factor receptor binding
PDB rendering based on 1aly.	

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