

Datasheet for ABIN6941188

**anti-CD40 Ligand antibody (AA 108-261)**[Go to Product page](#)**7** Images

## Overview

Quantity:	100 µg
Target:	CD40 Ligand (CD40LG)
Binding Specificity:	AA 108-261
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This CD40 Ligand antibody is un-conjugated
Application:	Flow Cytometry (FACS), Immunohistochemistry (IHC), ELISA, Immunofluorescence (IF), Coating (Coat), Staining Methods (StM)

## Product Details

Immunogen:	Recombinant fragment (around aa 108-261) of human CD40LG protein (exact sequence is proprietary)
Clone:	CD40LG-2761
Isotype:	IgG2b kappa
Purification:	Purified by Protein A/G

## Target Details

Target:	CD40 Ligand (CD40LG)
Alternative Name:	CD40LG ( <a href="#">CD40LG Products</a> )

## Target Details

**Background:** CD40LG expression is mainly confined to the CD4-positive-T-cell subset. Its expression is induced shortly after T-cell activation and represents an early activation marker of T lymphocytes. CD40 is constitutively expressed mainly on B cells, macrophages, and dendritic cells. The CD40-CD40L pathway has been shown to play multiple functional roles in the healthy immune system. It enhances the antigen-specific T-cell response through the activation of dendritic cells and the induction of interleukin-12 production. For example, engagement of CD40 on endothelial cells by activated T cells expressing CD40L leads to upregulation of adhesion molecules such as ICAM-1, VCAM-1, and E-selectin. Activation of APC by CD40-CD40L interaction induces the production of inflammatory cytokines, chemokines, NO, and metalloproteinases. Interaction of CD4-positiveCD40LG-positiveT cells with CD40 on B cells leads to B-cell differentiation, proliferation, immunoglobulin (Ig) isotype switching, and formation of memory B cells.

**Molecular Weight:** 36kDa

**Gene ID:** 959

**UniProt:** [P29965](#)

**Pathways:** [NF-kappaB Signaling](#), [Production of Molecular Mediator of Immune Response](#), [Cancer Immune Checkpoints](#)

## Application Details

**Application Notes:** Positive Control: Jurkat cells. Tonsil, Spleen or Thymus.  
Known Application: ELISA (For coating, order antibody without BSA), Flow Cytometry (1-2 µg/million cells), Immunofluorescence (1-2 µg/mL), Immunohistochemistry (Formalin-fixed) (1-2 µg/mL for 30 minutes at RT),(Staining of formalin-fixed tissues requires boiling tissue sections in 10 mM Citrate Buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 minutes),Optimal dilution for a specific application should be determined.

**Restrictions:** For Research Use only

## Handling

**Concentration:** 200 µg/mL

**Buffer:** 10 mM PBS with 0.05 % BSA & 0.05 % azide.

**Preservative:** Sodium azide

**Precaution of Use:** This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which

Handling

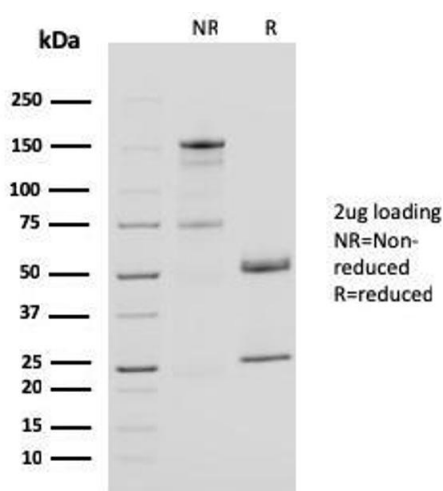
should be handled by trained staff only.

Storage: 4 °C,-80 °C

Storage Comment: Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

Expiry Date: 24 months

Images

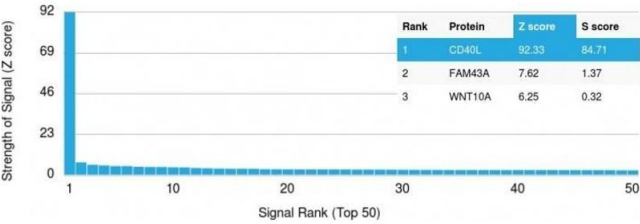


SDS-PAGE

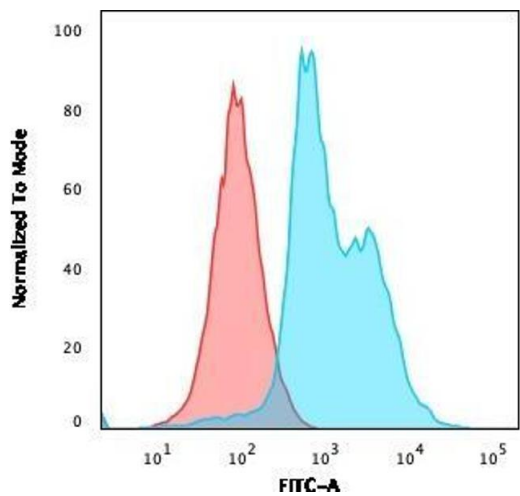
**Image 1.** SDS-PAGE Analysis Purified CD40L Mouse Monoclonal Antibody (CD40LG/2761). Confirmation of Purity and Integrity of Antibody.

Protein Array

**Image 2.** Analysis of Protein Array containing more than 19,000 full-length human proteins using CD40-Ligand Mouse Monoclonal Antibody (CD40LG/2761) Z- and S-Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProt™ array. Z-scores are described in units of standard deviations (SDs) above the mean value of all signals generated on that array. If targets on HuProt™ are arranged in descending order of the Z-score, the S-score is the difference (also in units of SDs) between the Z-score. S-score therefore represents the relative target specificity of a MAb to its intended target. A MAb is considered to specific to its intended target, if the MAb has an S-score of at least 2.5. For example, if a MAb binds to protein X with a Z-score of 43 and to protein Y with



a Z-score of 14, then the S-score for the binding of that MAb to protein X is equal to 29.



Flow Cytometry

**Image 3.** Flow Cytometric Analysis of Jurkat cells using CD40L-Monospecific Mouse Monoclonal Antibody (CD40LG/2761) followed by Goat anti-Mouse IgG-CF488 (Blue); Isotype Control (Red).

Please check the [product details page](#) for more images. Overall 7 images are available for ABIN6941188.