

# Product Information

## MemDX™ Mouse CD40LG NIH3T3 Cell Line

Cat. No.: **S01YF-0123-KX261**

This product is for research use only and is not intended for diagnostic use.

### Product Information

#### Target Protein

CD40LG

#### Target Protein Species

Mouse

#### Accession Number

NM\_011616.2

#### Protein Tag

Tag-free

#### Host Cell Type

NIH3T3

#### Target Classification

CD

#### Target Family

CD

#### Target Research Area

Autoimmune Research; Immunology Research

#### Related Diseases

Immunodeficiency With Hyper-Igm

### Product Properties

#### Morphology

Fibroblastoid cells growing as a monolayer

#### Assay Types

Drug screening and biological assays

#### Resistance

Puromycin

#### Mycoplasma Testing

Negative

### **Sterility Testing**

10 passages

### **Biosafety Level**

Level 1

### **Activity**

Yes

### **Quantity**

5x10<sup>6</sup> cells

### **Form**

Frozen cells

### **Freeze Medium**

70% DMEM + 20% FBS + 10% DMSO

### **Culture Medium**

DMEM + 10% FBS + 0.5µg/mL Puromycin

### **Selective Antibiotic(s)**

Regular antibiotics active against mycoplasmas, bacteria and fungi.

### **Handling Notes**

Frozen cells should be thawed immediately upon receipt and grown according to handling procedure to ensure cell viability and proper assay performance.

Note: Do not freeze the cells upon receipt as it may result in irreversible damage to the cell line.

Disclaimer: We cannot guarantee cell viability if the cells are not thawed immediately upon receipt and grown according to handling procedure.

### **Incubation**

37°C with 5% CO<sub>2</sub>

### **Applications**

Drug screening and biological assays

### **Application Notes**

Cells were plated in a 384-well plate and incubated overnight at 37°C and 5% CO<sub>2</sub> to allow the cells to attach and grow. Cells were then stimulated with a control for high-throughput drugs screening and functional assays.

### **Use Restrictions**

These cells are distributed for research use only.

### **Shipping**

Dry ice

### **Storage**

Liquid nitrogen

## **Target**

### **Full Name**

## CD40 ligand

### Introduction

Predicted to enable CD40 receptor binding activity and integrin binding activity. Involved in isotype switching. Acts upstream of or within B cell differentiation and regulation of immunoglobulin production. Located in external side of plasma membrane. Is expressed in Meckel's cartilage; dorsal root ganglion; and limb. Used to study inflammatory bowel disease and systemic lupus erythematosus. Human ortholog(s) of this gene implicated in several diseases, including Kawasaki disease; artery disease (multiple); autoimmune disease (multiple); combined T cell and B cell immunodeficiency (multiple); and hematologic cancer (multiple). Orthologous to human CD40LG (CD40 ligand).

### Alternative Names

IGM; IMD3; Ly62; TRAP; gp39; CD154; Cd40l; HIGM1; Ly-62; T-BAM; CD40-L; Tnfsf5; Tnlg8b; CD40 ligand; T-cell antigen Gp39; TNF-related activation protein; tumor necrosis factor ligand 8b; tumor necrosis factor ligand superfamily member 5

### Gene ID

[21947](#)

### UniProt ID

[P27548](#)