

## Anti-Mouse CD40L/CD154 Antibody (MR-1)

### Chemical Properties

CAS No. :

Formula:

Molecular Weight: 150 kDa

Store at low temperature

Storage: Store at -20°C

Actual storage temperature shall be subject to the COA.

### Biological Description

Description	Anti-Mouse CD40L/CD154 Antibody (MR-1) is a monoclonal inhibitory antibody targeting mouse CD40L/CD154. It downregulates the expression of the IFN signaling pathway and reduces IFN- $\beta$ production, effectively prolonging graft survival. It can be used in research on cancer, inflammatory diseases, and xenotransplantation, including pancreatic cancer and autoimmune cholangitis.
Targets(IC50)	COX,Immunology/Inflammation related
In vitro	Anti-Mouse CD40L/CD154 Antibody (MR-1) significantly inhibits IFN- $\beta$ production in natural killer T (NKT) cells when treated at 200 $\mu$ g/mL for 48 hours [1].
In vivo	<p>Anti-Mouse CD40L/CD154 Antibody (MR-1) administered intraperitoneally at a dose of 500 <math>\mu</math>g every 2 days from 2 days before tumor inoculation to 12 days after inoculation significantly downregulates the expression of type I IFN signaling pathway-related genes in male C57BL/6J mice bearing KPC1242 tumors [1].</p> <p>Anti-Mouse CD40L/CD154 Antibody (MR-1) administered intraperitoneally at 20 mg/kg once daily for 4 days starting 1 day before surgery, and then once weekly until the end of the experiment, prolongs the survival time of human neural stem cells (hNSCs) in 5XFAD transgenic mice [2].</p> <p>Anti-Mouse CD40L/CD154 Antibody (MR-1) administered intraperitoneally at 25 mg/kg on days 0, 2, 4, and 7 as initial doses, followed by once-weekly maintenance doses, temporarily delays the progression of cholangitis in dnTGF<math>\beta</math>R11 mice [3].</p>

### Preparing Stock Solutions

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	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
1 mM	0.0067 mL	0.0333 mL	0.0667 mL
5 mM	0.0013 mL	0.0067 mL	0.0133 mL
10 mM	0.0007 mL	0.0033 mL	0.0067 mL
50 mM	0.0001 mL	0.0007 mL	0.0013 mL

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Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

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