

## Anti-Mouse NKG2D/CD314 Antibody (CX5)

### 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 NKG2D/CD314 Antibody (CX5) is a rat-derived inhibitory antibody targeting mouse NKG2D/CD314. It can reduce the cytotoxicity of natural killer cells and is used in research on cancer, infection, inflammation, immunology, and metabolic diseases, including colitis and diabetes.
Targets(IC50)	Immunology/Inflammation related
In vitro	Anti-Mouse NKG2D/CD314 Antibody (CX5) reduces the lysis of leukemic cells by natural killer cells [2]. Anti-Mouse NKG2D/CD314 Antibody (CX5) (10 µg/mL) significantly reduces the cytolytic activity of natural killer cells and reverses the enhanced cytotoxicity against YAC-1 and Panc02 cells induced by a hypoxic environment [4].
In vivo	Anti-Mouse NKG2D/CD314 Antibody (CX5) (8 mg/kg, intraperitoneal injection, administered on days 0-5, followed by 3 times per week) combined with CTLA-4 antibody in a mouse model of islet transplantation in diabetic mice can prolong graft survival time and maintain normal blood glucose [1]. Anti-Mouse NKG2D/CD314 Antibody (CX5) (100 µg, intravenous injection, 1 day before and on the day of transplantation) can reduce the clearance of leukemia cells by NK cells in a mouse model transplanted with MLL/ENL-HPCs [2]. Anti-Mouse NKG2D/CD314 Antibody (CX5) (200 µg, intraperitoneal injection, twice a week from week 2 to week 4) can alleviate colitis symptoms in SCID mice [3]. Anti-Mouse NKG2D/CD314 Antibody (CX5) (200 µg, intraperitoneal injection, once every 3 days starting from 3 days before tumor cell inoculation) can promote tumor growth in mice with the Panc02 tumor model [4]. Anti-Mouse NKG2D/CD314 Antibody (CX5) (50 µg, intraperitoneal injection, on days 6-10 after LMCV infection) used in combination with GAD65-specific CD4+ T cells can prevent the onset of diabetes induced by lymphocytic choriomeningitis virus (LMCV) in mice [5].

### 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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