

Anti-Mouse CD71/TfR1 Antibody (R17 217.1.3)

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 CD71/TfR1 Antibody (R17 217.1.3) is a rat-derived inhibitory antibody targeting mouse CD71/TfR1. It can deplete CD71-positive cells and inhibit the transferrin receptor, and is applicable to research on tumors, infections, inflammation, and immunology, including lung cancer, lymphocytic choriomeningitis virus infection, and heart transplantation.
Targets(IC50)	Immunology/Inflammation related
In vitro	Anti-Mouse CD71/TfR1 Antibody (R17 217.1.3), when treated at a concentration of 10 µg/mL for 18-72 hours, downregulated the expression of transferrin receptor 1 in type 2 innate lymphoid cells (ILC2s) and inhibited the uptake of transferrin [3].
In vivo	Anti-Mouse CD71/TfR1 Antibody (R17 217.1.3), when administered intraperitoneally at a dose of 150 µg for 2 consecutive days, can eliminate CD71 ⁺ erythroid splenocytes in a neonatal mouse model of endotoxemia and improve bacterial clearance efficiency [1]. When administered intravenously at a dose of 0.5 or 1.0 mg per mouse on day 21 post-tumor cell inoculation, Anti-Mouse CD71/TfR1 Antibody (R17 217.1.3) can inhibit the antiviral response of adoptively transferred P14 CD8 ⁺ T cells in mice with Lewis lung cancer complicated with LCMV infection [2]. Administration of 100 µg Anti-Mouse CD71/TfR1 Antibody (R17 217.1.3) via intraperitoneal injection prior to each intranasal challenge can reduce ILC2s infiltration in the lungs of mice with type 2 innate lymphoid cell (ILC2s)-mediated airway inflammation [3]. Daily intravenous administration of 100 µg Anti-Mouse CD71/TfR1 Antibody (R17 217.1.3) on days 0-3 can effectively prolong the survival period of grafts in mice with heart transplants [4].

Preparing Stock Solutions

	1mg	5mg	10mg
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

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

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