

Anti-Mouse CD27 (RM27-3E5) In Vivo Antibody - Low Endotoxin

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Bio X Cell:

ICH1185 is [up to 37% cheaper](#) for industry than the equivalent product BE0348 from Bio X Cell.

Product Benefits:

ichorbio's Anti-Mouse CD27 In Vivo Antibody - Low Endotoxin (RM27-3E5) [ICH1185] is manufactured in a cGMP compliant, ISO Quality Standard 9001:2015 facility. ichorbio's low endotoxin antibodies have half the endotoxin of comparable antibodies from [Bio X Cell](#) at less than 1.0 EU/mg. If ichorbio's low endotoxin antibodies are not low enough we also offer ultra low endotoxin antibodies which have even less endotoxin (0.5EU/mg) at an even higher purity (98% versus 95%). ichorbio: the best antibodies for *in vivo* research.

Target:

CD27

Clone:

RM27-3E5

Size:

ichorbio's RM27-3E5 *in vivo* antibody is available in the following bulk sizes: 5mg, 25mg, 50mg and 100mg. ichorbio regularly manufactures multi-gram amounts of our anti-mouse CD27 RM27-3E5 clone - please contact us for pricing.

Isotype:

IgG1 kappa

Other Names:

CD27L receptor, Tnfrsf7

Host:

Rat

Species Reactivity:

Mouse

Antigen Distribution:

ichor.bio // hello@ichor.bio

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CD27 is expressed on T cells, B cells, and NK cells.

Background:

CD27 is a glycosylated, type I transmembrane protein of the TNFR superfamily that is constitutively expressed on the surface of progenitor and naïve T cells as well as subsets of natural killer (NK) and B cells. CD27 is an immune-checkpoint receptor and ligation with CD70 results in co-stimulatory effects that enhance primary, memory, and recall T cell responses. CD27 signaling has been targeted for the development of viral, autoimmune, and anti-tumor immunotherapies. RM27-3E5 (rat IgG2a) was raised against recombinant mouse CD27-human IgG1 Fc fusion protein and purified from ascites using protein G columns. RM27-3E5 enhances anti-CD3-stimulated T cell proliferation when immobilized in vitro and augments ovalbumin-specific cytotoxic T lymphocyte (CTL) induction when administered in vivo. RM27-3E5 is an agonistic antibody and has been found to support the control of both established lung metastases and subcutaneous tumors. An anti-tumor effect was also observed with RM27-3E5 against EG7/CD27(+) and EG7/CD27(?) tumors, with the effect mediated mainly by T cells with a minor contribution by NK cells. RM27-3E5 exerts its potent anti-tumor effect by inducing a tumor-specific CTL response. RM27-3E5 has potential utility as a non-depleting agonistic anti-CD27 mAb to enhance anti-tumor immunity.

Concentration:

1.0 - 5.0 mg/ml

Formulation:

0.01 M phosphate buffered saline (PBS) pH 7.2, 150 mM NaCl with no carrier protein, potassium or preservatives added. BSA and Azide free.

Purity:

>95% by SDS-PAGE and HPLC

>98% by SDS-PAGE and HPLC

Endotoxin:

1.0 EU/mg as determined by the LAL method

? 0.75 EU/mg as determined by the LAL method

Aggregation:

Aggregation level ? 5%

Aggregation level ? 1%

IMPACT Pathogen Test:

We use the IMPACT test generated by IDEXX Laboratories to guarantee our Ultra Low Endotoxin antibodies are pathogen free. Our mouse antibodies are tested for: Mycoplasma spp., Mycoplasma pulmonis, Sendai virus, Mouse hepatitis virus, Pneumonia virus of mice, Minute virus of mice, Mouse parvovirus (MPV1-5), Theiler's murine encephalomyelitis virus, Murine norovirus, Reovirus 3, Mouse rotavirus, Ectromelia virus, Lymphocytic

choriomeningitis virus, Polyoma virus, Lactate dehydrogenase-elevating virus, Mouse adenovirus (MAD1, MAD2), Mouse cytomegalovirus K virus, Mouse thymic virus, Hantaan virus, Corynebacterium bovis, Corynebacterium spp. (HAC2)

Storage:

Anti-mouse CD27 In Vivo Antibody - Low Endotoxin (RM27-3E5) is stable for at least one week when stored sterile at 2-8°C. For long term storage aseptically aliquot in working volumes without diluting and store at –20°C in a manual defrost freezer. Avoid Repeated Freeze Thaw Cycles.

Applications:

Functional Assays, Flow Cytometry, ImmunoPrecipitation

Application Notes:

Each investigator should determine their own optimal working dilution for specific applications..

Use:

Products are for research use only.

Isotype Control:

[Rat IgG1 Isotype Control for In Vivo – Low Endotoxin \(GL113\) \[ICH2246\]](#)