

# Anti-Mouse CD49d (PS/2) In Vivo Antibody - Low Endotoxin

Anti-Mouse CD49d In Vivo Antibody (PS/2)

## Product Benefits:

ichorbio's anti-Mouse CD49d In Vivo Antibody (PS/2) - Low Endotoxin [ICH1200] 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:

CD49d

## Clone:

PS/2

## Size:

ichorbio's PS/2 *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 CD49d PS/2 clone - please contact us for pricing.

## Isotype:

Rat IgG2b kappa

## Other Names:

VLA-4?, ITGA4, Integrin ?4

## Host:

Rat

## Species Reactivity:

Mouse, Human

## Specificity:

PS/2 activity is directed against mouse CD49d and is cross reactive against human CD49d.

## Antigen Distribution:

CD49d is expressed on T cells, B cells, NK , dendritic cells, thymocytes, monocytes, eosinophils, mast cells.

## **Background:**

Hybridoma supernatants were screened by cell adhesion assay and cells producing blocking antibodies were cloned. Adhesion is blocked in a dose dependent manner when PS/2 is used with P815 and +/+ 2.4 stromal cells. 70Z/3 cells are also sensitive to PS/2 inhibition. PS/2 is known to block binding of CD49d to its ligands. Lymphocyte production is completely blocked when PS/2 is included in Whitlock-Witte culture.

## **Immunogen:**

PS/2 was generated by immunizing Fisher rats with P815 cells and subsequently fusing the spleen cells with Sp2/0.

## **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:**

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ichor.bio // hello@ichor.bio

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Anti-Mouse CD49d In Vivo Antibody (PS/2) 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:**

Depletion, Flow Cytometry, Immunofluorescence, Immunohistochemistry

**Application Notes:** Each investigator should determine their own optimal working dilution for specific applications. **Use:**

Products are for research use only.

**Isotype Control:**

[Rat IgG2b In Vivo Isotype Control – Low Endotoxin \(1-2\) \[ICH2243\]](#)