Anti-Mouse PD-L1 (10F.9G2) In Vivo Antibody - Low Endotoxin

Product Code: ICH1086

Bulk anti-PD-L1 In Vivo Antibody - Low Endotoxin (10F.9G2)

Product Specific Citations:

Majewska, J., Agrawal, A., Mayo, A. et al. p16-dependent increase of PD-L1 stability regulates immunosurveillance of senescent cells. Nat Cell Biol 26, 1336–1345 (2024).

Chen et al. NAT10/ac4C/FOXP1 Promotes Malignant Progression and Facilitates Immunosuppression by Reprogramming Glycolytic Metabolism in Cervical Cancer. Advanced Science

Lin et al. Elevated FBXW10 drives hepatocellular carcinoma tumorigenesis via AR-VRK2 phosphorylation-dependent GAPDH ubiquitination in male transgenic mice. Cell Reports

Majewska et al. p16-dependent upregulation of PD-L1 impairs immunosurveillance of senescent cells. bioRxiv (2023)

Bio X Cell:

ICH1086 is up to 35% cheaper for academia & non-profits and up to 58% cheaper for industry than the equivalent product low endotoxin product (BE0101) and up to 36% cheaper for academics & up to 59% cheaper for industry for the ultra-low endotoxin version (BP0101) from Bio X Cell.

Product Benefits:

ichorbio's anti-PD-L1 In Vivo Antibody - Low Endotoxin (10F.9G2) is manufactured in a cGMP compliant 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:

PD-L1

Clone:

10F.9G2

Size:

ichorbio's 10F.9G2 *in vivo* antibody is available in the following bulk sizes: 1mg, 5mg, 25mg, 50mg and 100mg ichorbio regularly manufactures multi-gram amounts of our anti-PD-L1 10F.9G2 clone - please contact us for pricing.

Isotype:

Rat IgG2b

Other Names:

Programmed cell death 1 ligand 1, Cd274, PDCD1 ligand 1, Programmed death ligand 1, B7 homolog 1, B7-H1, B7h1, Pdcd1l1, Pdcd1lg1, Pdl1

Uniprot:

Q9EP73

Host:

Rat

Species Reactivity:

Mouse, Rat

Specificity:

Anti-PD-L1 In Vivo Antibody - Low Endotoxin (10F.9G2) recognizes an epitope on Mouse CD274

Purification Method:

This monoclonal antibody was purified using multi-step affinity chromatography methods such as Protein A or G depending on the species and isotype.

Antigen Distribution:

The CD274 antigen is present on T cells, B cells, NK cells, dendritic cells, IFN-γ activated endothelial cells, and monocytes

Background:

CD274, also known as B7-H1 and PD-L1, is a 40 kD type I transmembrane protein and a member of the B7 family within the immunoglobulin receptor superfamily. It is expressed on T cells, B cells, NK cells, dendritic cells, IFN-γ activated endothelial cells, and monocytes.

Immunogen:

Unknown

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

<0.5 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 rat antibodies are tested for: Mycoplasma spp Mycoplasma pulmonis Pneumonia virus of mice Kilham's rat virus Toolan's H1 virus Rat parvovirus Lymphocytic choriomeningitis virus Rat cytomegalovirus Sendai virus Rat coronavirus Sialodacryoadenitis virus Rat minute virus Seoul virus Mouse adenovirus Reovirus 3 Rat theilovirus

Storage:

This antibody is stable for at least 4 weeks when stored at 2-8°C. For long term storage, aliquot in working volumes without diluting and store at – 20°C or -80°C. Avoid repeated freeze thaw cycles.

Applications:

Flow Cytometry, Blocking, IHC (Frozen), Immunofluorescence, Functional Assays

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)

Mouse anti-mouse version:

Mouse anti-Mouse PD-L1 Antibody (10F.9G2) [ICH1183]

Immunofluorescence of frozen tissue sections

Sample: Frozen sections of tumor tissues from tumor bearing C57BL / 6 mice (inoculated with LLC cells) Protocol: 1. Tumors were dissected, fixed in 4% paraformaldehyde, and dehydrated in 30% sucrose; 2. Frozen tumor sections were prepared at 25 ℃ and rinsed in PBS; 3. Blocking buffer: PBS containing 0.3% Triton + 5% goat serum; Sections were blocked for 1h; 4. Primary antibodies: Diluted in blocking buffer; incubated overnight at 4℃. Final concentration of ichorbio PD-L1 antibody clone 10F.9G2 (low) 1μg/ml, Final concentration (high) 5μg/ml. Positive signals were detected at both high and low concentrations 5. Washed by PBST; Secondary antibodies: incubated at 4℃ for 6h; DAPI: 2h Details of secondary antibody: Alexa Fluor 647-AffiniPure Goat Anti-Rat IgG (H+L) (min X Hu,Bov,Hrs Sr Prot) antibody - Jackson Immunoresearch Labs Cat# 112-605-062 - Conc. 7.5μg/ml. 6. Washed by PBST at least 6 times 7. Add fluorescence decay resistant medium, seal slice; 8. Detected by the laser scanning confocal microscope. Scale bar in the IF figure is 50 μM. Images produced by Dr. Qin from State Key Laboratory of Genetic Engineering, School of Life Sciences of Fudan University

Alternative Names:

- B7 H antibody
- B7 H1 antibody
- B7 homolog 1 antibody
- B7-H1 antibody
- B7H antibody
- B7H1 antibody
- CD 274 antibody
- CD-274 antibody
- CD274 antibody
- CD274 antigen antibody
- CD274 molecule antibody
- MGC142294 antibody
- MGC142296 antibody
- OTTHUMP00000021029 antibody
- PD L1 antibody

- PD-L1 antibody
- PDCD1 ligand 1 antibody
- PDCD1L1 antibody
- PDCD1LG1 antibody
- PDL 1 antibody
- PDL1 antibody
- Programmed cell death 1 ligand 1 antibody
- Programmed death ligand 1 antibody
- RGD1566211 antibody