# Product Datasheet

## PD-L1 Antibody (MIH5) - BSA Free
## NBP1-43262-0.1mg

Unit Size: 0.1 mg

Store at 4C. Do not freeze.

www.novusbio.com technical@novusbio.com

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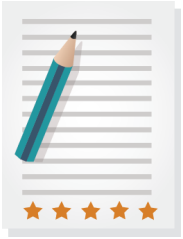
Updated 10/23/2024 v.20.1





# NBP1-43262-0.1mg

PD-L1 Antibody (MIH5) - BSA Free

## Product Information

| | |
|---|---|
| **Unit Size** | 0.1 mg |
| **Concentration** | 0.5 mg/ml |
| **Storage** | Store at 4C. Do not freeze. |
| **Clonality** | Monoclonal |
| **Clone** | MIH5 |
| **Preservative** | 0.09% Sodium Azide |
| **Isotype** | IgG2a Lambda |
| **Purity** | Protein A or G purified |
| **Buffer** | PBS (pH 7.2) |

## Product Description

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|---|---|
| **Host** | Rat |
| **Gene ID** | 29126 |
| **Gene Symbol** | CD274 |
| **Species** | Human, Mouse |
| **Immunogen** | The immunogen for this antibody was B7H1. |

## Product Application Details

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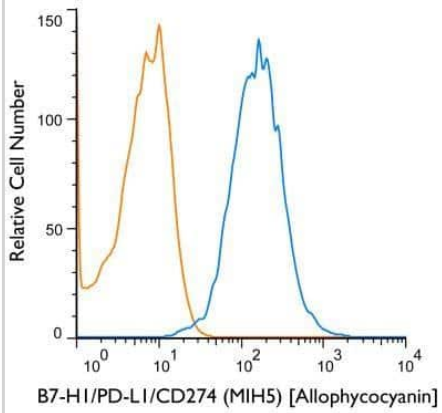
|---|---|
| **Applications** | Western Blot, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, In vivo assay |
| **Recommended Dilutions** | Western Blot 1:100-1:2000, Flow Cytometry 1:10-1:1000, Immunohistochemistry 1:10-1:500, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry-Frozen 1:10-1:500, In vivo assay |
| **Application Notes** | The MIH5 antibody has been tested by flow cytometric analysis of mouse splenocyte suspensions. This can be used at less than or equal to 0.5 ug per test. Cell number should be determined empirically but can range from 10^5 to 10^8 cells/test. Use in Immunocytochemistry/immunofluorescence reported in scientific literature (PMID: 30703170). Use In vivo reported in scientific literature (PMID: 30910830). |

## Images

Flow Cytometry: PD-L1/B7-H1 Antibody (MIH5) [NBP1-43262] - B7-H1/PD-L1/CD274 Antibody (MIH5) [NBP1-43262] - Using the Allophycocyanin direct conjugate A cell surface stain was performed on RAW246.7 cells with B7-H1/PD-L1/CD274 (MIH5) antibody NBP1-43262APC (blue) and a matched isotype control NBP1-51104APC (orange). Cells were incubated in an antibody dilution of 0.5 ug/mL for 20 minutes at room temperature. Both antibodies were conjugated to Allophycocyanin.



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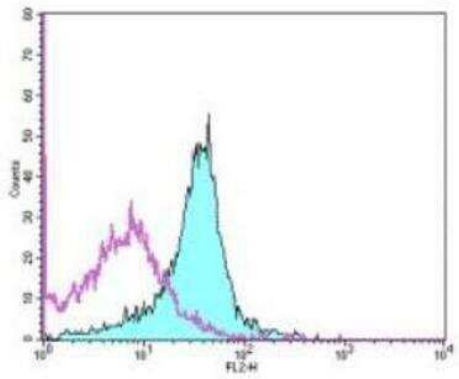
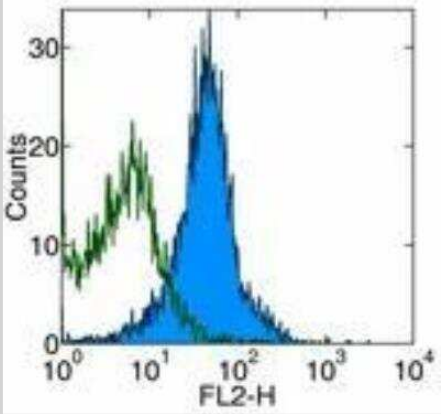
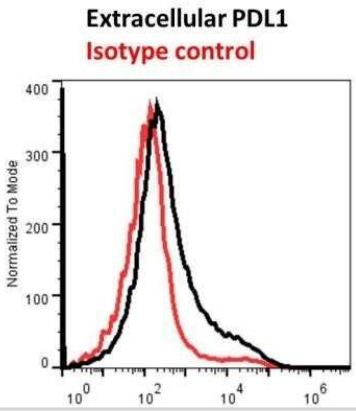
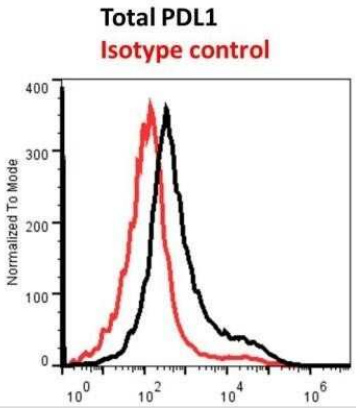
|---|---|
| Flow Cytometry: PD-L1/B7-H1 Antibody (MIH5) [NBP1-43262] - B7-H1/PD-L1/CD274 Antibody (MIH5) [NBP1-43262] - Analysis using the Biotin conjugate of NBP1-43262. Staining of C57Bl/6 splenocytes with 0.125 ug of Rat IgG2a Isotype Control Biotin (open histogram) or 0.125 ug of Anti-Mouse (B7-H1) Biotin (filled histogram) followed by Streptavidin PE. |  |
| Flow Cytometry: PD-L1/B7-H1 Antibody (MIH5) [NBP1-43262] - B7-H1/PD-L1/CD274 Antibody (MIH5) [NBP1-43262] - Staining of mouse splenocytes with Anti-Mouse B7-H1/PD-L1/CD274) PE. Appropriate isotype controls were used (open histogram). Total viable cells were used for analysis. |  |
| Flow Cytometry: PD-L1/B7-H1 Antibody (MIH5) [NBP1-43262] - Analysis using the DyLight 488 conjugate of NBP1-43262. Staining of PD-L1 in human primary colon cancer cell using anti-PD-L1 antibody. Image from verified customer review. |  |
| Flow Cytometry: PD-L1/B7-H1 Antibody (MIH5) [NBP1-43262] - Analysis using the DyLight 488 conjugate of NBP1-43262. Staining of PD-L1 in HT29 cells using anti-PD-L1 antibody. The data shows the detection of total PD-L1 status in the cancer cells. Image from verified customer review. |  |

## Publications


Chakrabarti J, Holokai L, Syu L et al. Hedgehog signaling induces PD-L1 expression and tumor cell proliferation in gastric cancer. Oncotarget 2018-12-21 [PMID: 30647844]

H. B. Deepak, Sabina Evan Prince, Pratima Deshpande Effect of baricitinib in regulating programmed death 1 and ligand programmed cell death ligand 1 through JAK/STAT pathway in psoriasis Indian Journal of Pharmacology 2022-01-01 [PMID: 35848689]

Kugeratski FG, LeBleu VS, Dowlatshahi DP et al. Engineered immunomodulatory extracellular vesicles derived from epithelial cells acquire capacity for positive and negative T cell co-stimulation in cancer and autoimmunity bioRxiv : the preprint server for biology 2023-11-04 [PMID: 37961535]

Wu Q, Wang W, Zhang C et al. Capturing nascent extracellular vesicles by metabolic glycan labeling-assisted microfluidics Nature communications 2023-10-17 [PMID: 37848408]

He X, Smith SE, Chen S et al. Tumor-initiating stem cell shapes its microenvironment into an immunosuppressive barrier and pro-tumorigenic niche Cell reports 2021-09-07 [PMID: 34496236]

Harding J, Vintersten-Nagy K, Shutova M, Yang H Induction of long-term allogeneic cell acceptance and formation of immune privileged tissue in immunocompetent Hosts bioRxiv 2019-07-30 (IHC-Fr, ICC/IF, Mouse)

Roy S, Saha S, Gupta P et al. Crosstalk of PD-1 signaling with SIRT1/FOXO-1 axis in progression of visceral leishmaniasis J. Cell. Sci. 2019-03-25 [PMID: 30910830] (In Vivo, Mouse)

Holokai L, Chakrabarti J, Broda T et al. Increased Programmed Death-Ligand 1 is an Early Epithelial Cell Response to Helicobacter pylori Infection PLoS Pathog. 2019-01-01 [PMID: 30703170] (ICC/IF, Human)

Samanta D, Park Y, Ni X et al. Chemotherapy induces enrichment of CD47+/CD73+/PDL1+ immune evasive triple-negative breast cancer cells Proc. Natl. Acad. Sci. U.S.A. 2018-01-24 [PMID: 29367423] (Mouse, Human)

Details:
This citation used the Alexa Fluor 488 form of this antbody

Sheng H, Wang Y, Jin Y et al. A critical role of IFNgamma in priming MSC-mediated suppression of T cell proliferation through up-regulation of B7-H1 Cell Res 2008-08-01 [PMID: 18607390]

Details:
This citation used the Biotin version of this antibody.

Tsushima F, Iwai H, Otsuki N et al. Preferential contribution of B7-H1 to programmed death-1-mediated regulation of hapten-specific allergic inflammatory responses Eur J Immunol 2003-10-01 [PMID: 14515261]

Details:
This citation used the Biotin version of this antibody.

**Novus Biologicals USA**
10730 E. Briarwood Avenue
Centennial, CO 80112
USA
Phone: 303.730.1950
Toll Free: 1.888.506.6887
Fax: 303.730.1966
nb-customerservice@bio-techne.com

**Bio-Techne Canada**
21 Canmotor Ave
Toronto, ON M8Z 4E6
Canada
Phone: 905.827.6400
Toll Free: 855.668.8722
Fax: 905.827.6402
canada.inquires@bio-techne.com

**Bio-Techne Ltd**
19 Barton Lane
Abingdon Science Park
Abingdon, OX14 3NB, United Kingdom
Phone: (44) (0) 1235 529449
Free Phone: 0800 37 34 15
Fax: (44) (0) 1235 533420
info.EMEA@bio-techne.com

**General Contact Information**
www.novusbio.com
Technical Support: nb-technical@bio-techne.com
Orders: nb-customerservice@bio-techne.com
General: novus@novusbio.com

## Products Related to NBP1-43262-0.1mg

| | |
|---|---|
| HAF005 | Goat anti-Rat IgG Secondary Antibody [HRP] |
| NBP1-75398 | Goat anti-Rat IgG (H+L) Secondary Antibody (Pre-adsorbed) |
| NBP2-31382 | Rat IgG2a Lambda Isotype Control (RG2aL) |
| NBP1-43262AF405 | PD-L1 Antibody (MIH5) [Alexa Fluor® 405] |

**Limitations**
This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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