

TECHNICAL DATA SHEET

In Vivo Ready™ Anti-Mouse CD279 (PD-1) (RMP1-30)

Catalog Number: 40-9981

PRODUCT INFORMATION

Contents: In Vivo Ready™ Anti-Mouse CD279 (PD-1) (RMP1-30)

Isotype: Rat IgG2b, kappa

Concentration: 2.0 mg/mL

Clone: RMP1-30

Reactivity: Mouse

Use By: 12 months from date of receipt

Storage Conditions: 2-8°C

Endotoxin Level: Less than or equal to 0.01 EU/ug, as determined by the LaL assay

Formulation: 10 mM NaH₂PO₄, 150 mM NaCl, pH7.2

DESCRIPTION

The RMP1-30 antibody is specific for mouse CD279, also known as programmed death-1 (PD-1), a 55 kDa glycoprotein member of the Ig superfamily of molecules. PD-1 exists in a monomeric form that is expressed by CD4- CD8- thymocytes, where it participates in the processes of clonal selection, elimination of autoreactive lymphocytes, and development of tolerance. PD-1 expression is also inducible upon activation of mature T cells, where it has been proposed to interact with the co-stimulatory receptor CD80 to limit T cell activation. Two ligands for PD-1, known as PD-L1 (B7-H1) and PD-L2 (B7-DC) are differentially expressed on T and B cells, monocytes, macrophages, NK cells or dendritic cells.

PREPARATION & STORAGE

This monoclonal antibody preparation was purified from tissue culture supernatant via affinity chromatography. For In Vivo Ready™ (IVR) products, each preparation is also evaluated for endotoxin levels using the LAL assay. It is recommended to store the product undiluted at 4°C. Do not freeze.

APPLICATION NOTES

Tonbo Biosciences tests all of our antibodies by flow cytometry. Citations may be provided as a resource for additional applications that have not been validated by Tonbo Biosciences - please consult Materials and Methods sections for additional details about the use of any product in these publications.

REFERENCES

Ishida Y, Agata Y, Shibahara K, Honjo T. 1992. EMBO J. Nov 11(11):3887-3895. Carreno BM, Collins M. 2002. Annu Rev Immunol. 20:29-53. Matsumoto K, Inoue H, Nakano T, Tsuda M, Yoshiura Y, Fukuyama S, Tsushima F, Hoshino T, Aizawa H, Akiba H, Pardoll D, Hara N, Yagita H, Azuma M, Nakanishi Y. 2004. J Immunol. Feb 15;172(4):2530-2541.

Tonbo Biosciences tests all antibodies by flow cytometry. Citations are provided as a resource for additional applications that have not been validated by Tonbo Biosciences. Please choose the appropriate format for each application and consult Materials and Methods sections for additional details about the use of any product in these publications.

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