

In Vivo Ready™ Anti-Mouse CD279 (PD-1) (J43.1) Antibody
Catalog # ATB10405**Specification****In Vivo Ready™ Anti-Mouse CD279 (PD-1) (J43.1) Antibody - Product Information**

Application	IHC, FC, IP, FA
Isotype	Armenian Hamster IgG
Concentration	2.0 mg/mL
Reactivity	Mouse
Formulation	10 mM NaH ₂ PO ₄ , 150 mM NaCl, pH7.2

In Vivo Ready™ Anti-Mouse CD279 (PD-1) (J43.1) Antibody - Additional Information

Gene ID	18566
Gene Name	Pdcd1
Alternative Name(s)	
PDCD1, PD1, SLEB2	

Format

In Vivo Ready™

Storage Conditions

2-8°C

In Vivo Ready™ Anti-Mouse CD279 (PD-1) (J43.1) Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

In Vivo Ready™ Anti-Mouse CD279 (PD-1) (J43.1) Antibody - Images**In Vivo Ready™ Anti-Mouse CD279 (PD-1) (J43.1) Antibody - Background**

The J43.1 antibody is specific for mouse CD279, also known as programmed death-1 (PD-1), a 55 kDa glycoprotein which can co-regulate T cell antigen receptor signaling and therefore modulate T cell activation. 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. PD-1 is a member

of a family of receptors including CD28 and CTLA-4 (CD152), which interact with “B7” ligands to provide a balance of co-stimulatory /co-inhibitory signaling important in T cell activation, tolerance, and autoimmunity.

The J43.1 antibody may be used as a marker for PD-1 expression, and is commonly used for analysis of receptor-ligand interaction and function(s) in vitro and in vivo. Please choose the appropriate format for each application.

In Vivo Ready™ Anti-Mouse CD279 (PD-1) (J43.1) Antibody - References

Hams E, McCarron MJ, Amu S, Yagita H, Azuma M, Chen L, and Fallon PG. 2011. J. Immunol. 186:5648-5655. (in vivo blocking)

Rivas MN, Weatherly K, Hazzan M, Vokaer B, Dremier S, Gaudray F, Goldman M, Salmon I, and Braun MY. 2009. 183:4284-4291. (in vitro blocking)

Koehn BH, Ford ML, Ferrer IR, Borom K, Gangappa S, Kirk AD, and Larsen CP. 2008. J. Immunol. 181:5313-5322. (in vivo blocking)

Brooks DG, Ha S-J, Elsaesser H, Sharpe AH, Freeman GJ, and Oldstone MBA. 2008. Proc. Natl. Acad. Sci. 105:20428-20433. (Flow cytometry)

Ansari MJI, Salama AD, Chitnis T, Smith RN, Yagita H, Akiba H, Yamazaki T, Azuma M, Isai H, Khoury SJ, Auchincloss H, and Sayegh MH. 2003. J. Exp. Med. 198:63-71. (Immunohistochemistry – frozen tissue, in vivo blocking)

Agata Y, Kawasaki A, Nishimura H, Ishida Y, Tsubat T, Yagita H, and Honjo T. 1996. Int. Immunol. 8:765-772. (Immunoprecipitation)