Product Data Sheet

Purified anti-human CD279 (PD-1)

Catalog # / 2249510 / 100 µg

Size:

Clone: EH12.2H7

Isotype: Mouse IgG1, ĸ

Reactivity: Human

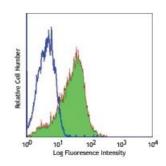
Preparation: The antibody was purified by affinity

chromatography.

Phosphate-buffered solution, pH 7.2, Formulation:

containing 0.09% sodium azide.

Concentration: 0.5



PHA-stimulated (day-3) human peripheral blood lymphocytes were stained with purified CD279 (clone EH12.2H7) (filled histogram), or purified mouse IgG1, κ (open histogram), followed by antimouse IgG FITC.

Applications:

Applications: Flow Cytometry, Immunohistochemistry

Recommended

Usage:

Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is ≤0.5 microg per million cells in 100 microL volume. It is recommended that the reagent be titrated for optimal

performance for each application.

Application Notes:

Additional reported applications (for the relevant formats) include: blocking of ligand binding $^{1-3}$ and immunohistochemical staining of paraformal dehyde fixed frozen sections¹³. The LEAF^m purified antibody (Endotoxin <0.1 EU/ μ g, Azide-Free, 0.2 µm filtered) is recommended for functional assays (Cat. No. 329911 and 329912). For highly sensitive assays, we recommend Ultra-LEAF™ purified antibody (Cat. No. 329926) with a lower endotoxin limit than standard LEAF™ purified antibodies (Endotoxin <0.01 EU/microg).

Application References: 1. Dorfman DM, et al. 2006 Am. J. Surg. Pathol. 30:802. (FA)

2. Radziewicz H, et al. 2007. J. Virol. 81:2545. (FA)

3. Velu V, et al. 2007. J. Virol. 81:5819. (FA)

4. Zahn RC, et al. 2008. J. Virol. 82:11577. PubMed

5. Chang WS, et al. 2008. J. Immunol. 181:6707. (FC) PubMed

6. Nakamoto N, et al. 2009. PLoS Pathog. 5:e1000313. (FA)

7. Jones RB, et al. 2009. J. Virol. 83:8722. (FC) PubMed

8. Vojnov L, et al. 2010. J. Virol. 84:753. (FC) PubMed

9. Radziewicz H, et al. 2010. J. Immunol. 184:2410. (FC) PubMed

10. Monteriro P, et al. 2011. J. Immunol. 186:4618. PubMed

11. Conrad J, et al. 2011. J. Immunol. 186:6871. PubMed

12. Salisch NC, et al. 2010. J. Immunol. 184:476. (Rhesus reactivity)

13. Li H and Pauza CD. 2015. Eur. J. Immunol. 45:298. (IHC)

Description:

Programmed cell death 1 (PD-1), also known as CD279, is a 55 kD member of the immunoglobulin superfamily. CD279 contains the immunoreceptor tyrosine-based inhibitory motif (ITIM) in the cytoplasmic region and plays a key role in peripheral tolerance and autoimmune disease. CD279 is expressed predominantly on activated T cells, B cells, and myeloid cells. PD-L1 (B7-H1) and PD-L2 (B7-DC) are ligands of CD279 (PD-1) and are members of the B7 gene family. Evidence suggests overlapping functions for these two PD-1 ligands and their constitutive expression on some normal tissues and upregulation on activated antigen-presenting cells. Interaction of CD279 ligands results in inhibition of T cell proliferation and cytokine secretion.