PE/Cy7 anti-human CD279 (PD-1)

Catalog # / 2249585 / 25 tests

Size: 2249590 / 100 tests

Clone: EH12.2H7

Isotype: Mouse IgG1, κ

Reactivity: Human

Preparation: The antibody was purified by affinity

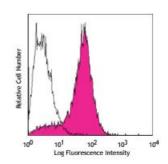
chromatography, and conjugated with PE/Cy7 under optimal conditions. The solution is free of unconjugated PE/Cy7 and unconjugated antibody.

Formulation: Phosphate-buffered solution, pH 7.2,

containing 0.09% sodium azide and

0.2% (w/v) BSA (origin USA).

Concentration: Lot-specific



PHA-stimulated (day-3) human peripheral blood lymphocytes were stained with CD279 (clone EH12.2H7) PE/Cy7 (filled histogram) or mouse IgG1, κ PE/Cy7 (open histogram).

Applications:

Applications: Flow Cytometry

Recommended

Usage:

Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis.

Test size products are

transitioning from 20 microL to 5 microL per test. Please check your vial or your CoA to find the suggested use of this reagent per million cells in 100 microL staining volume or per 100

microL of whole blood. It is recommended that the reagent be titrated for optimal performance for

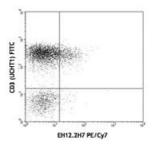
Additional reported applications (for

each application.

Application Notes:

the relevant formats) include: blocking binding 1 - 3 and ligand immunohistochemical staining paraformaldehyde fixed frozen sections¹³. The LEAF™ purified <0.1 EU/μg, antibody (Endotoxin Azide-Free, 0.2 μm filtered) recommended for functional assays (Cat. No. 329911 and 329912). For sensitive highly assays, Ultra-LEAF™ recommend purified antibody (Cat. No. 329926) with a lower endotoxin limit than standard LEAF™ purified antibodies (Endotoxin

<0.01 EU/microg).



Human peripheral blood lymphocytes were stained with CD279 (clone EH12.2H7) PE/Cy7 and CD3 (clone UCHT1) FITC.

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) <u>PubMed</u> 8. Vojnov L, et al. 2010. J. Virol. 84:753. (FC) <u>PubMed</u>
- 9. Radziewicz H, et al. 2010. J. Immunol. 184:2410. (FC) PubMed

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

- 10. Monteriro P, et al. 2011. J. Immunol. 186:4618. <u>PubMed</u>
- 11. Conrad J, et al. 2011. J. Immunol. 186:6871. PubMed
- 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.