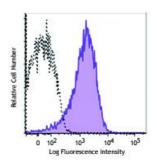
APC/Fire[™] 750 anti-human CD279 (PD-1)

Catalog # / Size:	2249765 / 25 tests 2249770 / 100 tests
Clone:	EH12.2H7
lsotype:	Mouse IgG1, κ
Reactivity:	Human, Non-human primate, Other
Preparation:	The antibody was purified by affinity chromatography and conjugated with APC/Fire™
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA).
Workshop Number:	750 under optimal conditions.
Concentration:	Lot-specific



PHA-stimulated (day 3) human peripheral blood lymphocytes were stained with CD279 (clone EH12.2H7) APC/Fire[™] 750 (filled histogram) or mouse lgG1, κ APC/Fire[™] 750 isotype control (open histogram).

Applications:

Applications:	Flow Cytometry
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 5 μ l per million cells in 100 μ l staining volume or 5 μ l per 100 μ l of whole blood.
	* APC/Fire™ 750 has a maximum excitation of 650 nm and a maximum emission of 787 nm.
Application Notes:	Additional reported applications (for the relevant formats) include: blocking of ligand binding ¹⁻³ and immunohistochemical staining of paraformaldehyde fixed frozen sections ¹³ . The LEAF ^{m} purified antibody (Endotoxin <0.1 EU/µg, Azide-Free, 0.2 µm filtered) is recommended for functional assays (Cat. No. 329911 and 329912). For highly sensitive assays, we recommend Ultra-LEAF ^{m} purified antibody (Cat. No. 329926) with a lower endotoxin limit than standard LEAF ^{m} purified antibodies (Endotoxin <0.01 EU/µg).
Application References:	 Dorfman DM, et al. 2006 Am. J. Surg. Pathol. 30:802. (FA) Radziewicz H, et al. 2007. J. Virol. 81:2545. (FA) Velu V, et al. 2007. J. Virol. 81:5819. (FA) Zahn RC, et al. 2008. J. Virol. 82:11577. PubMed Chang WS, et al. 2008. J. Immunol. 181:6707. (FC) PubMed Nakamoto N, et al. 2009. PLoS Pathog. 5:e1000313. (FA) Jones RB, et al. 2009. J. Virol. 83:8722. (FC) PubMed Vojnov L, et al. 2010. J. Virol. 84:753. (FC) PubMed Radziewicz H, et al. 2010. J. Immunol. 184:2410. (FC) PubMed Monteriro P, et al. 2011. J. Immunol. 186:4618. PubMed Conrad J, et al. 2011. J. Immunol. 186:6871. PubMed Salisch NC, et al. 2010. J. Immunol. 184:476. (Rhesus reactivity) Li H and Pauza CD. 2015. Eur. J. Immunol. 45:298. (IHC) Peterson VM, et al. 2017. Nat. Biotechnol. 35:936. (PG)

For research use only. Not for diagnostic use. Not for resale. Sony Biotechnology Inc. will not be held responsible for patent infringement or other violations that may occur with the use of our products. Sony Biotechnology Inc. 1730 North First Street, San Jose, CA 95112 www.sonybiotechnology.com **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.