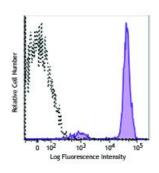
APC/Fire[™] 750 anti-human CD45

Catalog # / Size:	2120305 / 25 tests 2120310 / 100 tests
Clone:	HI30
lsotype:	Mouse IgG1, к
Immunogen:	Human T cells from a T-ALL patient.
Reactivity:	Human, 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



Human peripheral blood lymphocytes were stained with CD45 (clone HI30) APC/Fire[™] 750 (filled histogram), or mouse IgG1, ĸ 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.	Hun Iym
Application Notes:	Additional reported applications (for the relevant formats) include: immunohistochemical staining of acetone-fixed frozen tissue sections and formalin-fixed paraffin-embedded tissue sections ⁹ , inhibition of CD45 functions ⁴ , immunofluorescence ¹¹ , and Western blotting ³ .	anti hum Spai hum
	It was found that the HI30 clone and the 2D1 clone can cross block each other's binding.	

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Human peripheral blood lymphocytes were stained with anti-human CD4 FITC and antihuman CD25 (clone M-A251) Spark YG[™] 581 (left) or antihuman CD4 FITC only (right).

Application 1. Knapp W, et al. 1989. Leucocyte Typing IV. Oxford University Press. New **References:** York. 2. Kishihara K, et al. 1993. Cell 74:143. 3. Esser M, et al. 2001. J. Virol. 75:6173. (WB) 4. Yamada T, et al. 2002. J. Biol. Chem. 277:28830. 5. Nagano M, et al. 2007. Blood 110:151. 6. Jiang Q, et al. 2008. Blood 112:2858. PubMed 7. Morozov A, et al. 2010. Clin Cancer Res. 16:5630. PubMed 8. Yoshino N, et al. 2000. Exp. Anim. (Tokyo) 49:97. (FC) 9. Friedman T, et al. 1999. J. Immunol. 162:5256. (IHC) 10. Oeztuerk-Winder F, et al. 2012. EMBO J. 31:3431. (FC) PubMed 11. Rees LE, et al. 2003. Clin. Exp. Immunol. 134:497. (IF) 12. Lee J, et al. 2015. J Exp Med. 212:385. PubMed 13. Breton G, et al. 2015. J Exp Med. 212:401. PubMed 14. Marquardt N, et al. 2015. J Immunol. 6:2467. PubMed 15. Bushway ME, et al. 2014. Biol Reprod. 90(5): 110. (IF) PubMed **Description:** CD45 is a 180-240 kD single chain type I membrane glycoprotein also known as leukocyte common antigen (LCA) and T200. It is a tyrosine phosphatase expressed on the plasma membrane of all hematopoietic cells, except erythrocytes and platelets. CD45 is a signaling molecule that regulates a variety of cellular processes including cell growth, differentiation, cell cycle, and oncogenic transformation. CD45 plays a critical role in T and B cell antigen receptor-mediated activation by dephosphorylating substrates including p56Lck, p59Fyn, and other Src family kinases. CD45 noncovalently associates with lymphocyte phosphatase-associated

phosphoprotein (LPAP) on T and B lymphocytes. CD45 has been reported to

bind galectin-1 and to be associated with several other cell surface

antigens including CD1, CD2, CD3, and CD4.

1. Thomas M. 1989. Annu. Rev. Immunol. 7:339.

2. Trowbridge I, et al. 1994. Annu. Rev. Immunol.12:85.

Antigen

References: