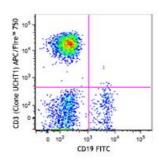
APC/Fire[™] 750 anti-human CD3

Catalog # / Size:	2102350 / 100 tests 2102345 / 25 tests
Clone:	UCHT1
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



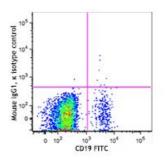
Human peripheral blood lymphocytes were stained with CD19 FITC and CD3 (clone UCHT1) APC/Fire™ 750 (top), or mouse IgG1, κ APC/Fire™ 750 isotype control (bottom).

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 μl per million cells in
100 μl staining volume or 5 μl per
100 μl of whole blood.

* APC/Fire[™] 750 has a maximum excitation of 650 nm and a maximum emission of 787 nm.



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 Notes:	Additional reported applications (for the relevant formats) include: immunohistochemical staining of acetone-fixed frozen sections ^{4,6,7} and formalin-fixed paraffin-embedded sections ¹¹ , immunoprecipitation ¹ , activation of T cells ^{2,3,5} , and Western blotting ⁹ . The LEAF ™ purified antibody (Endotoxin < 0.1 EU/µg, Azide-Free, 0.2 µm filtered) is recommended for functional assays (Cat. No. 300413, 300414, and 300432). For highly sensitive assays, we recommend Ultra-LEAF ™ purified antibody (Cat. No. 300437, 300438, 300465, 300466, 300473, 300474) with a lower endotoxin limit than standard LEAF ™ purified antibodies (Endotoxin < 0.01 EU/µg).
Application References:	 Salmeron A, et al. 1991. J. Immunol. 147:3047. (IP) Graves J, et al. 1991. J. Immunol. 146:2102. (Activ) Lafont V, et al. 2000. J. Biol. Chem. 275:19282. (Activ) Ryschich E, et al. 2003. Tissue Antigens 62:48. (IHC) Thompson AG, et al. 2004. J. Immunol. 173:1671. (Activ) Sakkas LI, et al. 1998. Clin. Diagn. Lab. Immun. 5:430. (IHC) Mack CL, et al. 2004. Pediatr. Res. 56:79. (IHC) Thakral D, et al. 2008. J. Immunol. 180:7431. (FC) PubMed Van Dongen JJM, et al. 1988. Blood 71:603. (WB) Yoshino N, et al. 2000. Exp. Anim. (Tokyo) 49:97. (FC) Pollard, K. et al. 1987. J. Histochem. Cytochem. 35:1329. (IHC) Laurent AJ, et al. 2013. J. Immunol. 190:27. PubMed Laurent AJ, et al. 2014. PLoS One. 9:103683. PubMed Li J, et al. 2015. Cancer Res. 75:508. PubMed Stoeckius M, et al. 2017. Nat. Methods. 14:865-868. (PG)
Description:	CD3ɛ is a 20 kD chain of the CD3/T-cell receptor (TCR) complex which is composed of two CD3ɛ, one CD3y, one CD3δ, one CD3ζ (CD247), and a T-

composed of two CD3 ϵ , one CD3 γ , one CD3 δ , one CD3 ζ (CD247), and a Tcell receptor (α/β or γ/δ) heterodimer. It is found on all mature T cells, NKT cells, and some thymocytes. CD3, also known as T3, is a member of the immunoglobulin superfamily that plays a role in antigen recognition, signal transduction, and T cell activation.

Antigen
References:
Diego.
2. Beverly P, et al. 1981. Eur. J. Immunol. 11:329.
3. Lanier L, et al. 1986. J. Immunol. 137:2501-2507.