

APC/Fire™ 750 anti-human CD4

Catalog # / Size: 2387130 / 100 tests
2387125 / 25 tests

Clone: A161A1

Isotype: Rat IgG2b, κ

Immunogen: Human CD4 T cells

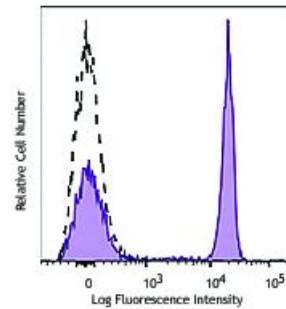
Reactivity: Human

Preparation: The antibody was purified by affinity chromatography and conjugated with APC/Fire™ 750 under optimal conditions.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA).

Workshop Number: III 155

Concentration: Lot-specific



Human peripheral blood lymphocytes were stained with CD4 (clone A161A1) APC/Fire™ 750 (filled histogram) or rat IgG2b, κ APC/Fire™ 750 isotype control (open histogram).

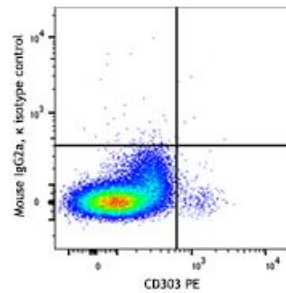
Applications:

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 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.

Application Notes: Clone 14G2a is an isotype switch variant from parental hybridoma 14.18 (IgG3)¹. Additional reported applications (for the relevant formats) include: inducing apoptosis and enhancing cytotoxicity of chemotherapeutic drugs in the neuroblastoma cell line ².



Human peripheral blood granulocytes were stained with True-Stain Monocyte Blocker™ (Cat. No. 426103) and Siglec-9 (clone K8) APC/Fire™ 750 (filled histogram) or mouse IgG1, κ isotype control APC/Fire™ 750 (open histogram).

Application References:

1. Mujoo K, et al. 1989. Cancer Res. 49:2857. (Cyt)
2. Kowalczyk A, et al. 2009. Cancer Lett. 281:171. (Apop, Cyt)
3. Battula VL, et al. 2012. J. Clin. Invest. 122:2066. (FC)

Description: CD4, also known as T4/Leu-3, is a 55 kD single-chain type I transmembrane glycoprotein and member of the immunoglobulin superfamily. It is expressed on most thymocytes, helper T cells, type II NKT cells, and monocytes/macrophages. CD4 is part of the TCR/CD3 complex, binds to $\beta 2$ domain from the MHC class II molecule, and participates in TCR signal transduction. CD4 is the receptor of IL-16 and is a coreceptor for the human immunodeficiency virus (HIV) and human herpes virus 7 (HHV-7).

Antigen
References:

1. Zhu J, *et al.* 2010. *Annu Rev. Immunol.* 28:445.
2. Vignali DA. 2010. *J. Immunol.* 184:5933.
3. Zhou L, *et al.* 2009. *Immunity* 30:646.
4. Singer A, *et al.* 2008. *Nat. Rev. Immunol.* 8:788.
5. Zhu J and Paul WE. 2008. *Blood* 112:1557.