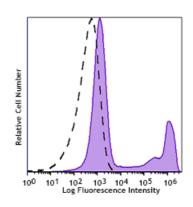
PE/Fire[™] 640 anti-human CD8

Catalog # / Size:	2323805 / 25 tests 2323810 / 100 tests
Clone:	SK1
lsotype:	Mouse IgG1, к
Reactivity:	Human, Non-human primate
Preparation:	The antibody was purified by affinity chromatography and conjugated with PE/Fire™ 640 under optimal conditions
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA)
Concentration:	Lot-specific



Human peripheral blood lymphocytes were stained with CD8 (clone SK1) PE/Fire[™] 640 (filled histogram), or unstained control (open histogram).

Applications:

Applications: Flow Cytometry

Recommended Each lot of this antibody is quality control tested by immunofluorescent **Usage:** 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. It is recommended that the reagent be titrated for optimal performance for each application.

> * PE/Fire[™] 640 has a maximum excitation of 566 nm and a maximum emission of 639 nm.

Clone SK1 recognizes the a chain of CD8. Additional reported applications Application Notes: (for the relevant formats) include: proteogenomics⁸, immunohistochemistry of acetone-fixed frozen tissue sections. This clone was tested in-house and does not demonstrate utility for formalin-fixed paraffin-embedded (FFPE) human tonsil sections.

Application	1. Ledbetter JA, <i>et al.</i> 1981. <i>J. Exp. Med.</i> 153:310.
References:	2. Campanelli R, et al. 2002. Intl. Immunol. 14:39.
	3. Evans RL, et al. 1981. Immunol. 78:544.
	4. Wooldridge L, et al. 2005. J. Bio. Chem. 280:27491.
	5. Ch'el IL, et al. 2011. J Exp Med. 208:633. PubMed
	6. Carbone A, et al. 1999. Blood 93:2319. (IHC-F)
	7. Ahmed A, et al. 2001. J. Pathol. 193:383. (IHC)
	8 Peterson VM et al 2017 Nat Biotechnol 35,936 (PG)

8. Peterson VM, et al. 2017. Nat. Biotechnol. 35:936. (PG)

Description: CD8a is a 32-34 kD type I glycoprotein. It forms a homodimer (CD8a/a) or heterodimer (CD8a/b) with CD8b. CD8, also known as T8 and Leu2, is a member of the immunoglobulin superfamily found on the majority of thymocytes, a subset of peripheral blood T cells, and NK cells (which express almost exclusively CD8a homodimers). CD8 acts as a co-receptor with MHC class I-restricted T cell receptors in antigen recognition and T cell activation and has been shown to play a role in thymic differentiation. Two domains in CD8a are important for function: the extracellular IgSF domain binds the α_3 domain of MHC class I and the cytoplasmic CXCP motif binds the tyrosine kinase p56 Lck.

Antigen1. Barclay N, et al. 1993. The Leucocyte Antigen FactsBook. Academic PressReferences:Inc. San Diego.