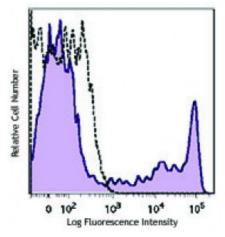
Product Data Sheet

Alexa Fluor[®] 647 anti-human CD8

Catalog # / Size:	2323625 / 25 tests 2323630 / 100 tests
Clone:	SK1
Isotype:	Mouse IgG1, к
Reactivity:	Human
Preparation:	The antibody was purified by affinity chromatography and conjugated with Alexa Fluor® 647 under optimal conditions.
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA).
Concentration:	0.5



Human peripheral blood lymphocytes were stained with CD8 (clone SK1) Alexa Fluor® 647 (filled histogram) or mouse IgG1, ĸ Alexa Fluor® 647 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 microL per million cells or 5 microL per 100 microL of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.
	* Alexa Fluor $^{ m I\!R}$ 647 has a maximum emission of 668 nm when it is excited at 633 nm / 635 nm.
Application Notes:	Clone SK1 recognizes the a chain of CD8. Additional reported applications (for the relevant formats) include: immunohistochemistry of acetone-fixed frozen tissue sections and formalin-fixed paraffin-embedded sections ^{6,7} . This clone was tested in-house and does not demonstrate utility for formalin-fixed paraffin-embedded (FFPE) human tonsil sections. However, there are references cited that indicate that this clone has been used successfully in other FFPE applications ^{6,7} .
Application References:	 Ledbetter JA, <i>et al.</i> 1981. <i>J. Exp. Med.</i> 153:310. Campanelli R, <i>et al.</i> 2002. <i>Intl. Immunol.</i> 14:39. Evans RL, <i>et al.</i> 1981. <i>Immunol.</i> 78:544. Wooldridge L, <i>et al.</i> 2005. <i>J. Bio. Chem.</i> 280:27491. Ch'el IL, <i>et al.</i> 2011. <i>J Exp Med.</i> 208:633. <u>PubMed</u> Carbone A, <i>et al.</i> 1999. <i>Blood</i> 93:2319. (IHC) Ahmed A, <i>et al.</i> 2001. <i>J. Pathol.</i> 193:383. (IHC)
Description:	CD8a is a 32-34 kD type I glycoprotein. It forms a homodimer (CD8a/a) or

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

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 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 Press Inc.References:San Diego.