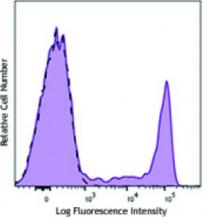
Product Data Sheet

Brilliant Violet 605[™] anti-human CD8

Catalog # / Size:	2323705 / 25 tests 2323710 / 100 tests	[
Clone:	SK1	
Isotype:	Mouse IgG1, κ	þ
Reactivity:	Human	Relative Cell Number
Preparation:	The antibody was purified by affinity chromatography and conjugated with Brilliant Violet 605 [™] under optimal conditions. The solution is free of unconjugated Brilliant Violet 605 [™] and unconjugated antibody.	
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA).	Hur Iym
Concentration:	Lot-specific	(clo (fill Bril



Human peripheral blood lymphocytes were stained with CD8 (clone SK1) Brilliant Violet 605[™] (filled histogram) or mouse IgG1, κ Brilliant Violet 605[™] 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.
	Brilliant Violet 605 [™] excites at 405 nm and emits at 603 nm. The bandpass filter 610/20 nm is recommended for detection, although filter optimization may be required depending on other fluorophores used. Be sure to verify that your cytometer configuration and software setup are appropriate for detecting this channel. Refer to your instrument manual or manufacturer for support. Brilliant Violet 605 [™] is a trademark of Sirigen Group Ltd.
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

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 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 Press Inc.References:San Diego.