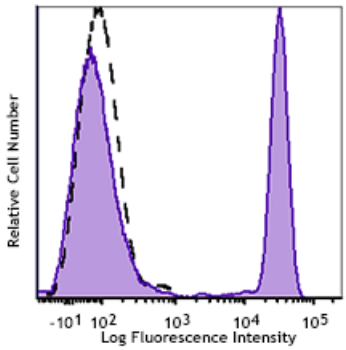
SONY

Product Data Sheet

Brilliant Violet 750™ anti-human CD4

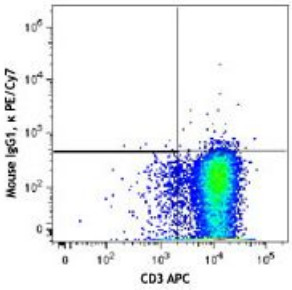
Catalog # / Size:	2323220 / 100 tests 2323215 / 25 tests
Clone:	SK3
Isotype:	Mouse IgG1, κ
Immunogen:	KG1a cell line
Reactivity:	Human
Preparation:	The antibody was purified by affinity chromatography and conjugated with Brilliant Violet 750™ under optimal conditions.
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA).
Workshop Number:	IV T-164
Concentration:	Lot-specific



Human peripheral blood lymphocytes were stained with CD4 (clone SK3) Brilliant Violet 750™ (filled histogram) or mouse IgG1, κ Brilliant Violet 750™ isotype control (open histogram).

Applications:

Applications:	Flow Cytometry



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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 or 5 µl per 100 µl of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.

Brilliant Violet 750™ excites at 405 nm and emits at 750 nm. The bandpass filter 780/60 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 750™ is a trademark of Sirigen Group Ltd.

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Application Notes: Additional reported (for the relevant formats) applications include proteogenomics[2].

Application References:

1. Evans RL, *et al.* 1981. *Immunol.* 78:544
2. Arno A *et al. 1999. J. Infect. Dis. 180:56*
3. Muech M*, et al.* 1997. *Blood 89:*1364
4. Wang L, *et al.* 2012. *Cytometry A.* 81:567. PubMed

Description: CD4, also known as T4, is a 55 kD single-chain type I transmembrane glycoprotein expressed on most thymocytes, a subset of T cells, and monocytes/macrophages. CD4, a member of the Ig superfamily, recognizes antigens associated with MHC class II molecules and participates in cell-cell interactions, thymic differentiation, and signal transduction. CD4 acts as a primary receptor for HIV, binding to HIV gp120. CD4 has also been shown to interact with IL-16.

Antigen References:

1. Center D *et al.* 1996. *Immunol. Today* 17:476.
2. Gaubin M *et al.* 1996. *Eur. J. Clin. Chem. Clin. Biochem.* 34:723.

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