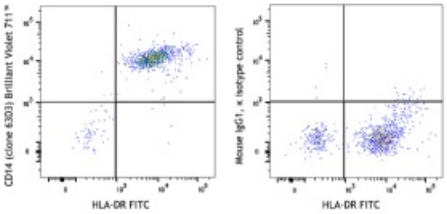
SONY

Product Data Sheet

Brilliant Violet 711™ anti-human CD14

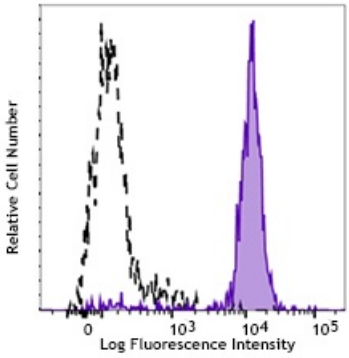
Catalog # / Size:	2435695 / 25 tests 2435700 / 100 tests
Clone:	63D3
Isotype:	Mouse IgG1, κ
Immunogen:	Purified human peripheral blood monocytes.
Reactivity:	Human
Preparation:	The antibody was purified by affinity chromatography and conjugated with Brilliant Violet 711™ under optimal conditions.
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA).
Workshop Number:	HCDM listed
Concentration:	Lot-specific



Human peripheral blood monocytes were stained with HLA-DR FITC and Brilliant Violet 711™ anti-human CD14 (clone 63D3) (left) or Brilliant Violet 711™ mouse IgG1, κ isotype control (right).

Applications:

Applications: Flow Cytometry



Human peripheral blood monocytes were stained with Brilliant Violet 711™ anti-human CD14 (clone 63D3) (filled histogram) or Brilliant Violet 711™ mouse IgG1, κ isotype control (open histogram)

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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 in 100 µl staining volume or 5 µl per 100 µl of whole blood.

Brilliant Violet 711™ excites at 405 nm and emits at 711 nm. The bandpass filter 710/50 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 711™ is a trademark of Sirigen Group Ltd.

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Application Notes: Clone m24 can be used as a reporter of the activation state of integrin receptor in response to exposure with Mg^{2+} or Mn^{2+}.

Application References:

1. Fridlender ZG, *et al.* 1999. *Hum. Immunol.* 11:1028.
2. Devitt A, *et al.* 1998. *Nature* 6675:505.

Description: CD14 is a 53-55 kD glycosylphosphatidylinositol (GPI)-linked membrane glycoprotein that is also known as the LPS receptor. CD14 is expressed at high levels on monocytes and macrophages, and at lower levels on granulocytes. Some dendritic cell populations such as interfollicular dendritic cells, reticular dendritic cells, and Langerhans cells have also been reported to express CD14. As a high-affinity receptor for LPS, CD14 is involved in the clearance of gram-negative pathogens and in the upregulation of adhesion molecules and cytokine expression in monocytes and neutrophils.

Antigen References:

1. Stocks SC, *et al.* 1990. *Biochem. J.* 268:275.
2. Wright SD, *et al.* 1990. *Science* 4975:1431.

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