

cFluor® R668 Anti-Human CD57 (HNK-1)

PRODUCT DETAILS	
Catalog Number:	R7-20171 (100 tests) R7-20172 (25 tests)
Reactivity:	Human, African Green, Baboon, Cynomolgus, Rhesus
Clone:	HNK-1
Format:	cFluor® R668*
Isotype:	Mouse IgM, κ
Volume Per Test:	5 µL / test
Application:	Flow cytometry
Formulation:	Phosphate-buffered saline, pH 7.2, containing 0.09% sodium azide and 0.2% BSA (BSA Country of Origin USA)
Storage:	2-8°C and protected from light. Do not freeze

PRODUCT DESCRIPTION

HNK-1 monoclonal antibody binds to human CD57, a 100-115 kDa oligosaccharide antigen expressed by several cell lineages¹. CD57, also known as HNK-1, NK-1, Leu-7 and L2, is present on peripheral blood lymphocyte subsets, including CD8 T cells and NK cells, neural and striated muscle cells^{2,3}. CD57 antigens are not expressed on erythrocytes, platelets, granulocytes, and monocytes⁴. While the function of CD57 is not well known, studies have shown that it may play a role in neural adhesion and cell-matrix interactions⁵. The antibody was conjugated to a fluorophore and purified by affinity chromatography.

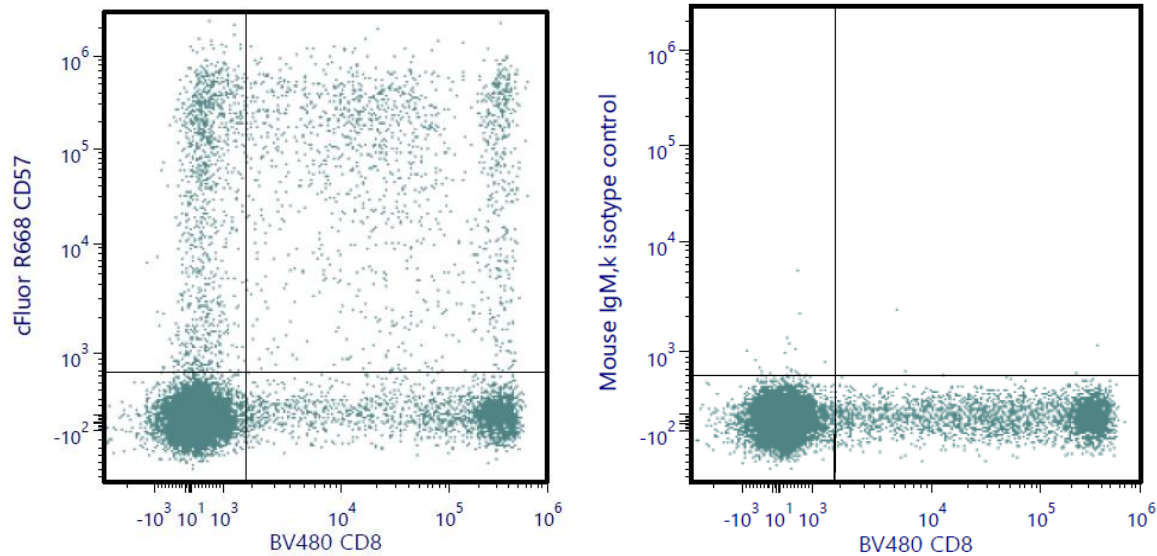
RECOMMENDED USAGE

Each lot of this antibody is quality control tested using flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is 5 µL per 1 million cells in a staining volume of 100 µL. If whole blood is analyzed, then use 5 µL per 100 µL. It is recommended that users titrate the antibody to obtain the optimal result for their specific application.

Please briefly centrifuge the reagent vial before use.

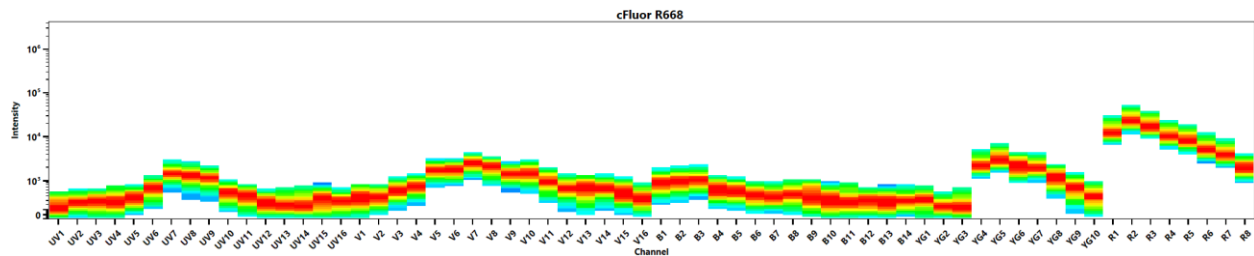
Use appropriate personal protective equipment per the product safety data sheet when using this product.

PRODUCT DATA



Human peripheral blood was stained with CD19-BV510 and cFluor® R668 Anti-Human CD57 (clone HNK-1) (left) or cFluor® R668 mouse IgM, κ isotype control (right). Data shown is gated on lymphocytes.

Spectral signature of cFluor® R668 from a Cytex® Aurora 5 laser system equipped with 355, 405, 488, 561 and 640 nm lasers using CytexAssaySetting.



REFERENCES

1. Khan A, et al. 1998. Virchows Arch. 432(5):427-32
2. Kared H, et al. 2016. Cancer Immunol Immunother. 65(4):441-52
3. Mechtersheimer G, et al. 1991. Cancer Res. 51(4):1300-7
4. Stelin, S. et al. 2009. J Indian Soc Periodontol 13, 150-4.
5. Künemund V, et al. J Cell Biol. 1988.106(1):213-23

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For Research Use Only. Not intended for use in diagnostic procedures.

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