cFluor® V420 Anti-Human CD52 (HI186)

PRODUCT DETAILS	
Catalog Number:	R7-20031 (100 tests) R7-20032 (25 tests)
Reactivity:	Human, Cynomolgus, Rhesus
Clone:	HI186
Format:	cFluor® V420
Isotype:	Mouse IgG2b, κ
Test Dilution:	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

The HI186 monoclonal antibody binds to human CD52, a 25-29-kDa glycosylphosphatidylinositol (GPI)-anchored glycoprotein. CD52, also known as Cambridge pathology 1 antigen (CAMPATH-1), is expressed in high levels on mature lymphocytes and surface of thymocytes. It is also present on NK cells, macrophages/monocytes, eosinophils, neutrophils and dendritic cells and absent from plasma cells, platelets and erythrocytes[1]. CD52 is known to be efficient in complement-mediated lysis and antibody-mediated cellular toxicity and are clinically used as a drug target for various diseases, including lymphoma, transplant rejection and autoimmune diseases[2]. The antibody was conjugated to a fluorophore and purified by affinity chromatography.

RECOMMENDED USAGE

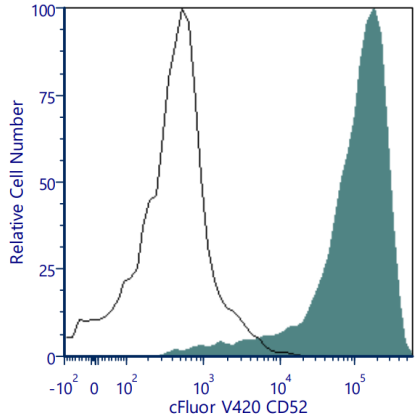
Each lot of this antibody is quality control tested using flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is 5 µL per 1 million cells in a staining volume of 100 µL. If whole blood is analyzed, then use 5 µL per 100 µL. It is recommended that users titrate the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

Please briefly centrifuge the reagent vial before use.

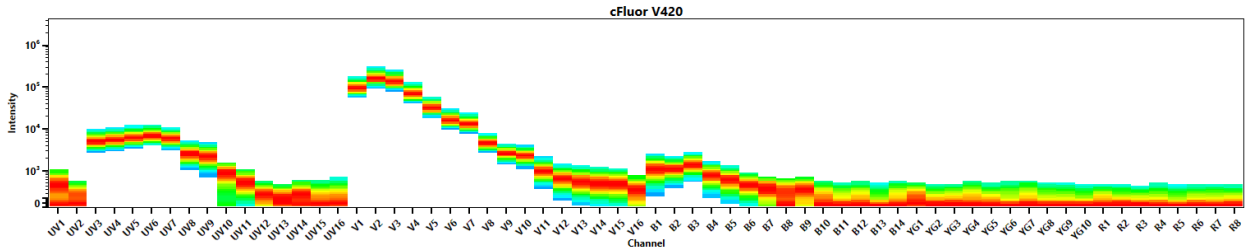
Use appropriate personal protective equipment per the product safety data sheet when using this product.

Cytek Biosciences Inc. I 47215 Lakeview Boulevard, Fremont, CA 94538
Phone: +1 (510) 657-0102 I Fax: +1 (510) 657-0151 I cytekbio@cytekbio.com I www.cytekbio.com

PRODUCT DATA



Human peripheral lymphocytes stained with cFluor® V420 CD52 (clone HI168) (filled histogram) or mouse cFluor® V420 IgG2b, κ isotype control (open histogram).



Spectral signature of cFluor® V420 from a Cytek® Aurora 5 laser system equipped with 355, 405, 488, 561 and 640 nm lasers using CytekAssaySetting.

REFERENCES

1. Zhao Y, et al. 2017. Inflamm Res. 66(7):571-578
2. Xia, M Q et al. 1993. The Biochemical journal. 633-40

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

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