

## cFluor<sup>®</sup> R720 Anti-Human Perforin (dG9)

PRODUCT DETAILS	
<b>Catalog Number:</b>	R7-20103 (100 tests) R7-20104 (25 tests)
<b>Reactivity:</b>	Human, Cross-Reactivity: Bovine (Cow, Cattle)
<b>Clone:</b>	dG9
<b>Format:</b>	cFluor <sup>®</sup> R720*
<b>Isotype:</b>	Mouse IgG2b, $\kappa$
<b>Volume Per Test:</b>	5 $\mu$ L / test
<b>Application:</b>	Flow cytometry
<b>Formulation:</b>	Phosphate-buffered saline, pH 7.2, containing 0.09% sodium azide and 0.2% BSA (BSA Country of Origin USA)
<b>Storage:</b>	2-8°C and protected from light. <b>Do not freeze</b>

### PRODUCT DESCRIPTION

The dG9 monoclonal antibody binds to human perforin, a 70-kDa pore forming cytolytic protein. Perforin is found in the granules of cytotoxic T lymphocytes (CTLs) and natural killer (NK) cells <sup>(1)</sup>. Perforin plays a key role in targeted cell lysis by polymerizing to form a channel in target cell membrane, which allows cytotoxic protease like granzyme B to enter the cell <sup>(2)(3)</sup>. The antibody was conjugated to a fluorophore and purified by affinity chromatography.

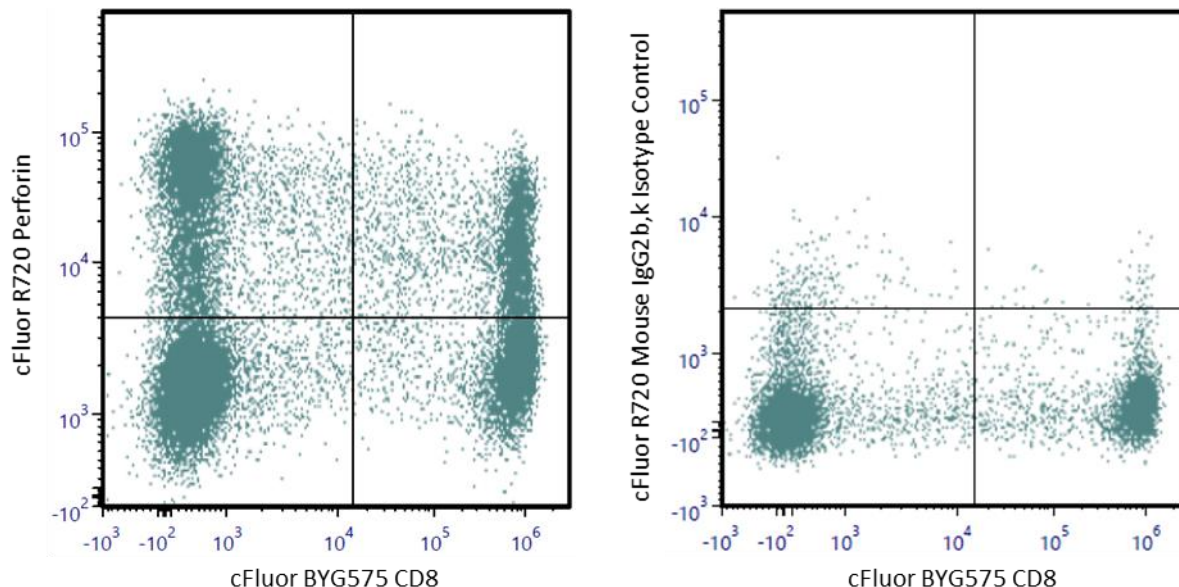
### RECOMMENDED USAGE

Each lot of this antibody is quality control tested using flow cytometric analysis. Perforin is a cytoplasmic marker and cells must be permeabilized to detect perforin with this conjugate. For flow cytometric staining, the suggested use of this reagent is 5  $\mu$ L per 1 million cells in a staining volume of 100  $\mu$ L. If whole blood is analyzed, then use 5  $\mu$ L per 100  $\mu$ L. 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.

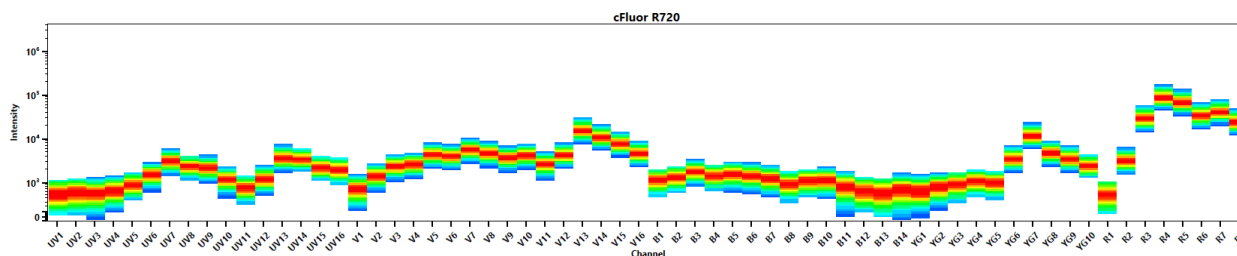
Use appropriate personal protective equipment per the product safety data sheet when using this product.

PRODUCT DATA



Human peripheral blood was stained with cFluor® BYG575 anti-human CD8, then permeabilized and stained with either cFluor® R720 anti-human Perforin (clone dG9) (left) or cFluor® R720 mouse IgG2b, κ isotype control (right). Data shown is gated on lymphocytes.

Spectral signature of cFluor® R720 from a Cytex® Aurora 5 laser system equipped with 355 nm, 405 nm, 488 nm, 561 nm and 640 nm lasers using CytexAssaySettings.



REFERENCES

1. Lichtenheld MG, et al. 1988. Nature. 29;335(6189):448-51
2. Osińska, Iwona et al. 2014. Central-European journal of immunology vol. 39,1 (2014): 109-15
3. Spicer BA, et al. 2017. Semin Cell Dev Biol. 72:117-123

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

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