

## cFluor™ R720 Anti-Human CD38 (HIT2)

PRODUCT DETAILS	
<b>Catalog Number:</b>	R7-20061 (100 tests) R7-20062 (25 tests)
<b>Reactivity:</b>	Human, Chimpanzee, Horse
<b>Clone:</b>	HIT2
<b>Format:</b>	cFluor™ R720
<b>Isotype:</b>	Mouse IgG1, κ
<b>Test Dilution:</b>	5 µL / test
<b>Application:</b>	Flow cytometry
<b>Formulation:</b>	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% BSA (Origin USA)
<b>Storage:</b>	2-8°C and protected from light. <b>Do not freeze</b>

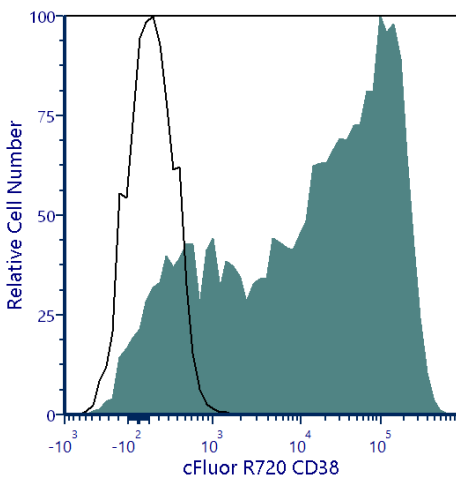
### PRODUCT DESCRIPTION

The HIT2 monoclonal antibody binds to human CD38, a 45-kDa type II single-chain transmembrane glycoprotein. CD38, also known as T10, is expressed in high levels on plasma cells, activated T cells and terminally differentiated B cells. CD38 has two functions: a receptor or an enzyme. As a receptor, CD38 binds CD31. As an ectoenzyme, CD38 functions both as ADP-ribosyl cyclase and cyclic ADP-ribose hydrolase to catalyze the synthesis of cyclic ADP-ribose to regulate intracellular calcium level, thus playing an essential role in cell signaling and growth<sup>(1)(2)</sup>. The antibody was conjugated to a fluorophore and purified by affinity chromatography.

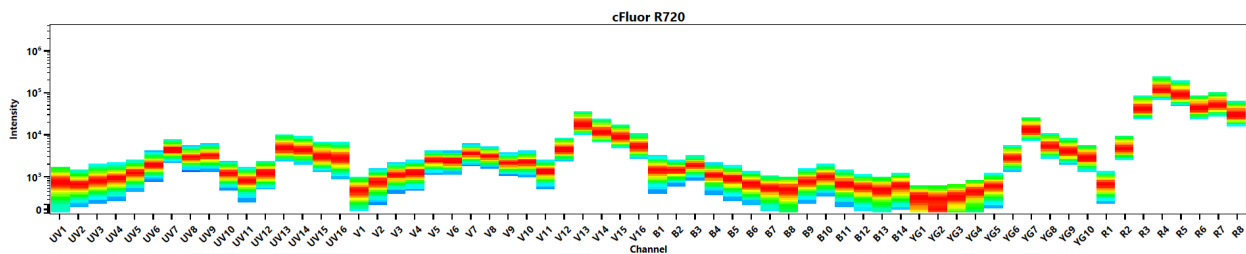
### RECOMMENDED USAGE

Each lot of this antibody is quality control tested using flow cytometric analysis. 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.

PRODUCT DATA



Human peripheral lymphocytes stained with cFluor™ R720 CD38 (clone HIT2) (filled histogram) or mouse cFluor™ R720 IgG1, κ isotype control (open histogram).



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

REFERENCES

1. Lee, Hon Cheung. 2006. Molecular medicine. 317-23
2. Deng QW, et al. 2019. J Biol Chem. 18;294(42):15293-15303

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

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