

cFluor™ R720 Anti-Human CD38 (HIT2)

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

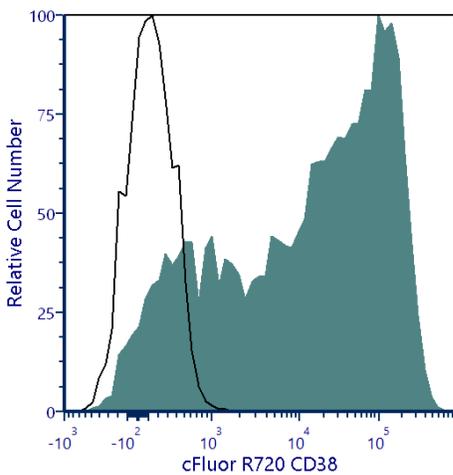
PRODUCT DESCRIPTION

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⁽¹⁾⁽²⁾. The antibody was conjugated to a fluorophore and purified by affinity chromatography.

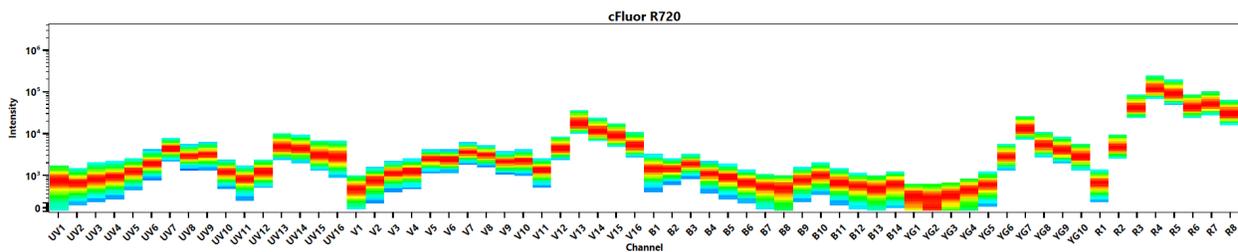
RECOMMENDED USAGE

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.

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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