

CD38 Monoclonal Antibody (HIT2), PerCP-eFluor™ 710, eBioscience™

Product Details	
Size	100 Tests
Species Reactivity	Human
Host/Isotype	Mouse / IgG1, kappa
Recommended Isotype Control	Mouse IgG1 kappa Isotype Control (P3.6.2.8.1), PerCP-eFluor™ 710, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	HIT2
Conjugate	PerCP-eFluor™ 710
Excitation/Emission Max	482/708 nm
Form	Liquid
Concentration	5 µL/Test
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with 0.2% BSA
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_2784686

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	5 µL (0.25 µg)/test	10 Publications
ELISA (ELISA)	-	1 Publication

Product Specific Information

Description: The HIT2 monoclonal antibody reacts with the human CD38 molecule, an approximately 45 kDa type II transmembrane protein. CD38 is expressed by thymocytes, peripheral B cells including plasma cells, activated T cells, and monocytes. CD38 is a counter-receptor for CD31 and has both cyclase and hydrolase enzymatic activity.

Applications Reported: This HIT2 antibody has been reported for use in flow cytometric analysis.

Applications Tested: This HIT2 antibody has been pre-diluted and tested by flow cytometric analysis of normal human peripheral blood cells. This may be used at 5 µL (0.25 µg) per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10⁵ to 10⁸ cells/test.

PerCP-eFluor 710 emits at 710 nm and is excited with the blue laser (488 nm); it can be used in place of PerCP-Cyanine5.5. We recommend using a 710/50 bandpass filter, however, the 695/40 bandpass filter is an acceptable alternative. Please make sure that your instrument is capable of detecting this fluorochrome.

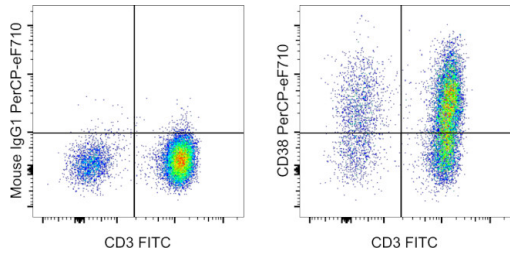
Light sensitivity: This tandem dye is sensitive to photo-induced oxidation. Please protect this vial and stained samples from light.

Fixation: Samples can be stored in IC Fixation Buffer (Product # 00-8222-49) (100 µL of cell sample + 100 µL of IC Fixation

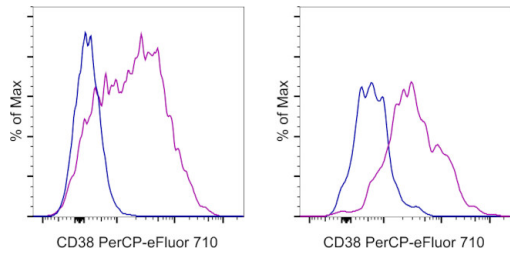
Buffer) or 1-step Fix/Lyse Solution (Product # 00-5333-57) for up to 3 days in the dark at 4°C with minimal impact on brightness and FRET efficiency/compensation. Some generalizations regarding fluorophore performance after fixation can be made, but clone specific performance should be determined empirically.

Excitation: 488 nm; Emission: 710 nm; Laser: Blue Laser

Product Images For CD38 Monoclonal Antibody (HIT2), PerCP-eFluor™ 710, eBioscience™



CD38 Antibody (46-0389-42) in Flow
Normal human peripheral blood cells were stained with CD3 Monoclonal Antibody, FITC (Product # 11-0037-42) and Mouse IgG1 kappa Isotype Control, PerCP-eFluor 710 (Product # 46-4714-82) (left) or CD38 Monoclonal Antibody, PerCP-eFluor 710 (right). Cells in the lymphocyte gate were used for analysis.



CD38 Antibody (46-0389-42) in Flow
Staining of normal human peripheral blood cells with Mouse IgG1 K Isotype Control PerCP-eFluor 710 (Product # 46-4714-42) (blue histogram) or Anti-Human CD38 PerCp-eFluor 710 (purple histogram). Cells in the lymphocyte gate (left) and monocyte gate (right) were used for analysis.

View more figures on thermofisher.com

11 References

Flow Cytometry (10)

Frontiers in immunology

Immunometabolic interference between cancer and COVID-19.

"Published figure using CD38 monoclonal antibody (Product # 46-0389-42) in Flow Cytometry"

Authors: Consonni FM,Durante B,Manfredi M,Bleve A,Pandolfo C,Garlatti V,Vanella VV,Marengo E,Barberis E,Bottazzi B,Bombace S,My I,Condorelli G,Torri V,Sica A

Year
2023

Aging cell

B cell-intrinsic changes with age do not impact antibody-secreting cell formation but delay B cell participation in the germinal centre reaction.

"Published figure using CD38 monoclonal antibody (Product # 46-0389-42) in Flow Cytometry"

Authors: Lee JL,Fra-Bido SC,Burton AR,Innocentin S,Hill DL,Linterman MA

Year
2022

[View more Flow references on thermofisher.com](#)

ELISA (1)

Science advances

Synthesis of site-specific antibody-drug conjugates by ADP-ribosyl cyclases.

"Published figure using CD38 monoclonal antibody (Product # 46-0389-42) in ELISA"

Authors: Dai Z,Zhang XN,Nasertorabi F,Cheng Q,Li J,Katz BB,Smbatyan G,Pei H,Louie SG,Lenz HJ,Stevens RC,Zhang Y

Year
2020

More applications with references on thermofisher.com

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