

# CD38 Monoclonal Antibody (HIT2), PE-Cyanine7, eBioscience™

Product Details	
Size	100 Tests
Species Reactivity	Human
Published Species	Mouse, Human
Host/Isotype	Mouse / IgG1, kappa
Recommended Isotype Control	Mouse IgG1 kappa Isotype Control (P3.6.2.8.1), PE-Cyanine7, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	HIT2
Conjugate	PE-Cyanine7
Excitation/Emission Max	569/780 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_1724057

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	5 µL (1 µg)/test	38 Publications

## 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-titrated and tested by flow cytometric analysis of normal human peripheral blood cells. This can be used at 5 µL (1 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 10<sup>5</sup> to 10<sup>8</sup> cells /test.

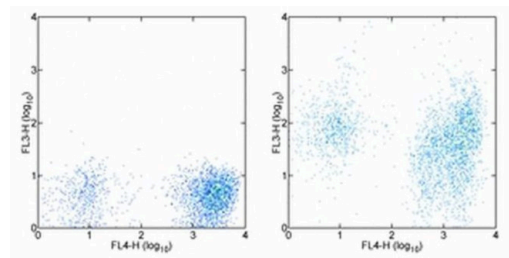
**Light sensitivity:** This tandem dye is sensitive photo-induced oxidation. Please protect this vial and stained samples from light.

**Fixation:** Samples can be stored in IC Fixation Buffer (Product # 00-822-49) (100 µL cell sample + 100 µL IC Fixation Buffer) or 1-step Fix/Lyse Solution (Product # 00-5333-54) 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:** 488-561 nm; **Emission:** 775 nm; **Laser:** Blue Laser, Green Laser, Yellow-Green Laser.

**Filtration:** 0.2 µm post-manufacturing filtered.

Product Images For CD38 Monoclonal Antibody (HIT2), PE-Cyanine7, eBioscience™



**CD38 Antibody (25-0389-42) in Flow**  
Staining of normal human peripheral blood cells with Anti-Human CD3 APC (Product # 17-0038-42) and Mouse IgG1 kappa Isotype Control PE-Cyanine7 (Product # 25-4714-80) (left) or Anti-Human CD38 PE-Cyanine7 (right). Cells in the lymphocyte gate were used for analysis.

View more figures on [thermofisher.cn](https://thermofisher.cn)

38 References

Flow Cytometry (38)

<p>Frontiers in immunology</p> <p><b>Immunometabolic interference between cancer and COVID-19.</b></p> <p>"Published figure using CD38 monoclonal antibody (Product # 25-0389-42) in Flow Cytometry"</p> <p>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</p>	<p>Year</p> <p>2023</p>
<p>Journal of cellular biochemistry</p> <p><b>BML-260 promotes the growth of cord blood and mobilized peripheral blood hematopoietic stem and progenitor cells with improved reconstitution ability.</b></p> <p>"25-0389-42 was used in Flow cytometry/Cell sorting to show that BML-260 molecules can be used for human HSC expansion and regulation of function."</p> <p>Authors: Albayrak E,Akgol S,Turan RD,Uslu M,Kocabas F</p>	<p>Year</p> <p>2022</p> <p>Species</p> <p>Mouse</p>

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