

CD38 Mouse Anti-Human Monoclonal Antibody (clone HIT2) PE-Cy®7 Conjugate

Store at 2°C to 8°C

Pub. No. MAN0008444 Rev. 1.00

Catalog No.	Form	Amount	Excitation	Peak Emission
A16239	PE-Cy®7	25 tests (5 µL/test, 0.2 µg/µL)	488 nm	767 nm

Clone	HIT2
Host/Class	Mouse IgG _{1κ}
Description	The CD38 Mouse Anti-Human Monoclonal Antibody recognizes human CD38, a ~45 kDa type II transmembrane protein. CD38 is an ectoenzyme that functions as a cyclic ADP ribose hydrolase essential for intracellular calcium regulation. It plays a role in B cell proliferation, lymphocyte activation and differentiation. It is expressed by thymocytes, peripheral B cells including plasma cells, activated T cells, and monocytes.
Alternate Names	ADP-Ribosyl Cyclase, Cyclic ADP-Ribose Hydrolase
Reactivity	Human CD38
Applications*	FC (human peripheral blood leukocytes)
Storage Buffer	The reagent is provided in aqueous buffer with 0.09% sodium azide, and may contain carrier protein/stabilizer. CAUTION! Sodium azide is extremely toxic and may react with lead and copper plumbing to form highly explosive metal azides. Properly dispose of solutions containing sodium azide. Read the Safety Data Sheet (SDS) and follow the handling instructions. Wear appropriate protective eyewear, clothing, and gloves. SDSs are available at www.lifetechnologies.com/support .
Storage	Store reagents in the dark at 2° to 8°C. Do not freeze. If the reagent is being diluted, it is recommended that only the quantity to be used within one week be diluted. The tandem dye is sensitive to photo-induced oxidation. Protect the vial and stained samples from light. Avoid prolonged light exposure. Use dim light during handling, incubation with cells, and prior to analysis.
Stability	When stored as instructed, expires one year from date of receipt unless otherwise indicated on Certificate of Analysis.
Lot Number	See product label.
References	<ol style="list-style-type: none"> Horenstein AL, Stockinger H, Imhof BA, Malavasi F. CD38 binding to human myeloid cells is mediated by mouse and human CD31. <i>Biochem J.</i> 1998 Mar 15;330 (Pt 3):1129-35. Deaglio S, Morra M, Mallone R, Ausiello CM, Prager E, Garbarino G, Dianzani U, Stockinger H, Malavasi F. Human CD38 (ADP-ribosyl cyclase) is a counter-receptor of CD31, an Ig superfamily member. <i>J Immunol.</i> 1998 Jan 1;160(1):395-402. Joshua D, Petersen A, Brown R, Pope B, Snowden L, Gibson J. The labelling index of primitive plasma cells determines the clinical behaviour of patients with myelomatosis. <i>Br J Haematol.</i> 1996 Jul;94(1):76-81. McMichael, AJ, et al. eds. (1987) Leucocyte Typing III: White Cell Differentiation Antigens. Oxford University Press. New York.

* Because conditions may vary, it is recommended that each investigator determine the optimal amount of antibody to be used for each application.








FC = flow cytometry; FUNC = functional assay; ICC = immunocytochemistry; IHC(F) = immunohistochemistry (frozen sample); IHC(P) = immunohistochemistry (paraffin embedded sample); IP = immunoprecipitation; RIA = radioimmunoassay; WB = western blot

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

Manufacturing site: 7335 Executive Way | Frederick, MD 21704 | Toll Free in USA 800.955.6288

Explanation of Symbols

The symbols present on the product label are explained below:

Symbol	Description	Symbol	Description	Symbol	Description
	Manufacturer		Catalog number		Batch code
	Use by		Temperature limitation		
	Consult instructions for use		Caution, consult accompanying documents		

Limited Use Label License No. 384

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