

CD38 Rat Anti-Mouse Monoclonal Antibody (clone 90) PE-Cy®5 Conjugate

Store at 2°C to 8°C

Pub. No. MAN0008436 **Rev.** 1.00

Catalog No.	Form	Amount	Excitation	Peak Emission
A16217	PE-Cy [®] 5	50 μg (0.2 mg/mL)	488 nm	670 nm

Clone	90				
Host/Class	Rat IgG _{2ak}				
Description	The CD38 Rat Anti-Mouse Monoclonal Antibody recognizes mouse CD38, a ~42 kDa type II transmembrane glycoprotein. 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 on a subpopulation of thymocytes, mature T cells, and NK cells. Expression levels increase at each stage of B cell differentiation, until reaching germinal center B cell and mature plasma cell stages, whereupon levels are down-regulated.				
Alternate Names	ADP-Ribosyl Cyclase, Cyclic ADP-Ribose Hydrolase				
Reactivity	Mouse CD38				
Applications*	FC (mouse splenocyte suspensions)				
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. Avoid prolonged light exposure with fluorochrome-conjugated antibodies. 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	 Oliver, A. M., J. C. Grimaldi, et al. 1999. Independently ligating CD38 and Fc gammaRIIB relays a dominant negative signal to B cells. <i>Hybridoma</i>. 18(2): 113-9. Oliver, A. M., F. Martin, et al. 1997. Marginal zone B cells exhibit unique activation, proliferative and immunoglobulin secretory responses. <i>Eur J Immunol</i>. 27(9): 2366-74. Oliver, A. M., F. Martin, et al. 1997. Mouse CD38 is down-regulated on germinal center B cells and mature plasma cells. <i>J Immunol</i>. 158(3): 1108-15. 				

^{*} 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

Explanation of Symbols

The symbols present on the product label are explained below:

Symbol	Description	Symbol	Description	Symbol	Description
***	Manufacturer	REF	Catalog number	LOT	Batch code
\square	Use by	1	Temperature limitation		
\bigcap_i	Consult instructions for use	<u> </u>	Caution, consult accompanying documents		

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