## CD38 (HIT2) Mouse mAb (APC Conjugate)



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## For Research Use Only. Not for Use in Diagnostic Procedures.

<b>Applications:</b> R FC-L	eactivity: H	<b>Sensitivity:</b> Endogenous	<b>Source/Isotype:</b> Mouse IgG1 kappa	UniProt ID: #P28907	Entrez-Gene Id: 952
Product Usage Information		<b>Application</b> Flow Cytometry (Live)			<b>Dilution</b> 1:20
Storage		Supplied in 10 mM NaH2PO4, 150 mM NaCl, 0.09% NaN3, 0.1% gelatin, pH 7.2. This product is stable for 12 months when stored at 4°C. Do not aliquot the antibody. Protect from light. Do not freeze.			
Specificity/Sensitivity		CD38 (HIT2) Mouse mAb (APC Conjugate) recognizes endogenous levels of total CD38 protein. This antibody detects an epitope within the extracellular domain.			
Source / Purification		This monoclonal antibody was purified from tissue culture supernatant via affinity chromatography. The purified antibody was conjugated under optimal conditions, with unreacted dye removed from the preparation.			
Description		This Cell Signaling Technology antibody is conjugated to APC and tested in-house for direct flow cytometric analysis in human cells.			
Background		biological processes, incl described as a glycosylat multifunctional enzyme NAD (1,2). Under acidic of dinucleotide phosphate messengers that target of NAD <sup>+</sup> glycohydrolase res treatment of metabolic of	ted immune cell surface methat catalyzes the synthes conditions, CD38 also catal (NAADP) from NADP <sup>+</sup> . Bot different intracellular Ca <sup>2+</sup> sponsible for NAD <sup>+</sup> metaboliseases regulated by NAD erapeutic target for antibol	insulin secretion, an narker, additional resis and hydrolysis of lyzes the synthesis of h cADPR and NAADI stores (3-6). Since Colism, CD38 may be olism, CD38 may be	nd social behavior. Originally search determined that CD38 is a cyclic ADP ribose (cADPR) from
Background References		1. Malavasi, F. et al. (2008) <i>Physiol Rev</i> 88, 841-86. 2. Jin, D. et al. (2007) <i>Nature</i> 446, 41-5. 3. Lee, H.C. et al. (1999) <i>Mol Cell Biochem</i> 193, 89-98. 4. Calcraft, P.J. et al. (2009) <i>Nature</i> 459, 596-600. 5. Ogunbayo, O.A. et al. (2011) <i>J Biol Chem</i> 286, 9136-40. 6. Lee, H.C. (2012) <i>J Biol Chem</i> 287, 31633-40. 7. Cantó, C. et al. (2012) <i>Cell Metab</i> 15, 838-47. 8. Escande, C. et al. (2013) <i>Diabetes</i> 62, 1084-93. 9. Malavasi, F. et al. (2011) <i>Blood</i> 118, 3470-8. 10. Deaglio, S. et al. (2010) <i>Semin Cancer Biol</i> 20, 416-23. 11. Chillemi, A. et al. (2013) <i>Mol Med</i> 19, 99-108.			

**Species Reactivity** Species reactivity is determined by testing in at least one approved application (e.g., western blot).

**Applications Key FC-L:** Flow Cytometry (Live)

Cross-Reactivity Key H: Human

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