

Product datasheet for **SM3083P**

CD38 Mouse Monoclonal Antibody [Clone ID: HIT2]

Product data:

Product Type:	Primary Antibodies
Clone Name:	HIT2
Applications:	FC, IHC, WB
Recommended Dilution:	Flow Cytometry. Western Blot (Non Reducing Conditions): 2 µg/ml. <i>Positive Control:</i> RAJI Human cell line. <i>Sample preparation:</i> Resuspend approx. 50 mil. cells in 1 ml cold Lysis buffer (1% laurylmaltoside in 20 mM Tris/Cl, 100 mM NaCl pH 8.2, 50 mM NaF including Protease inhibitor Cocktail). Incubate 60 min on ice. Centrifuge to remove cell debris. Mix lysate with non-reducing SDS-PAGE sample buffer. Boil for 5 min. Immunohistochemistry on Frozen Sections. Immunohistochemistry on Paraffin Sections: 10 µg/ml.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Human thymocytes in foetus
Specificity:	The antibody reacts with CD38 (T10), a 45 kDa type II transmembrane glycoprotein strongly expressed mainly on plasma cells and activated T and B lymphocytes; it is an antigenic marker of lymphoid cells.
Formulation:	PBS, pH~7.4 State: Purified State: Liquid purified Ig fraction (> 95% pure by SDS-PAGE) Preservative: 15mM Sodium Azide
Concentration:	lot specific
Purification:	Affinity Chromatography on Protein A
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C. DO NOT FREEZE!



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Stability: Shelf life: one year from despatch.

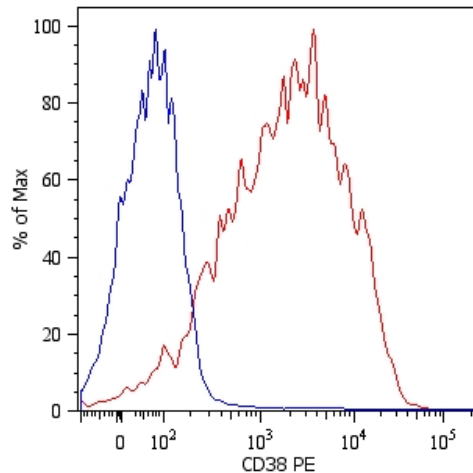
Gene Name: CD38 molecule

Database Link: [Entrez Gene 952 Human P28907](#)

Background: CD38 (NAD⁺ glycohydrolase) is a type II transmembrane glycoprotein able to induce activation, proliferation and differentiation of mature lymphocytes and mediate apoptosis of myeloid and lymphoid progenitor cells. Another role of CD38 is provided by enzymatic activity of its extracellular part. CD38 acts as NAD⁺ glycohydrolase converting NAD⁺ into ADP-ribose, as ADP-ribosyl cyclase producing cADPR and as cADPR hydrolase, thus affecting levels of calcium-mobilizing metabolites. ADPR produced by CD38 serves as an important second messenger of neutrophil and dendritic cell migration.

Synonyms: cADPr hydrolase 1, T10

Product images:



Surface staining of PHA stimulated Human peripheral blood lymphocytes with PE conjugated anti-Human CD38 Antibody (Clone HIT2).