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Product datasheet for SM3083B

CD38 Mouse Monoclonal Antibody [Clone ID: HIT2]

Product data:

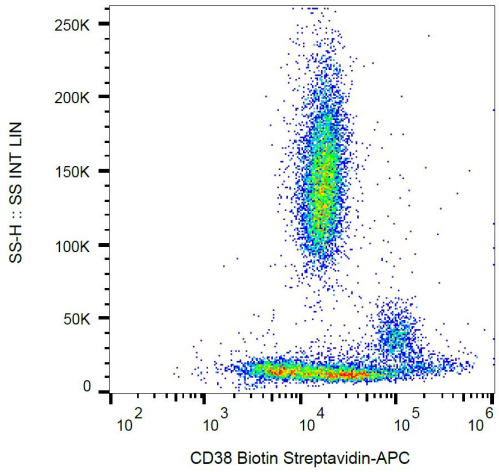
Product Type:	Primary Antibodies
Clone Name:	HIT2
Applications:	FC
Recommended Dilution:	**Flow Cytometry analysis:** 1:500.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Human thymocytes in foetus
Specificity:	This antibody reacts with CD38 (T10), a 45 kDa type II transmembrane glycoprotein strongly expressed mainly on plasma cells and activated T and B lymphocytes; it is an antigenic marker of lymphoid cells.
Formulation:	Phosphate buffered saline (PBS) with 15 mM sodium azide, approx. pH 7.4 Label: Biotin State: Liquid purified Ig fraction Label: Conjugated with Biotin-LC-NHS under optimum conditions. The reagent is free of unconjugated biotin.
Concentration:	lot specific
Conjugation:	Biotin
Storage:	Store the antibody undiluted at 2 - 8 °C. DO NOT FREEZE!
Stability:	Shelf life: one year from despatch.
Gene Name:	CD38 molecule
Database Link:	Entrez Gene 952 Human P28907

View online »

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 human peripheral blood with anti-human CD38 (HIT2) biotin / streptavidin-APC.