

## Product datasheet for **SM3083APC**

### CD38 Mouse Monoclonal Antibody [Clone ID: HIT2]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	HIT2
Applications:	FC
Recommended Dilution:	<b>Flow Cytometry analysis</b> of human blood cells using 20 µl reagent / 100 µl of whole blood or 10 <sup>6</sup> cells in a suspension.
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) containing 15 mM sodium azide Label: APC State: Liquid Ig fraction Label: Conjugated with cross-linked Allophycocyanin (APC) under optimum conditions. The conjugate is purified by size-exclusion chromatography and adjusted for direct use.
Conjugation:	APC
Storage:	Store the antibody at 2 - 8 °C. DO NOT FREEZE! This product is photosensitive and should be protected from light.
Stability:	Shelf life: one year from despatch.
Gene Name:	CD38 molecule
Database Link:	<a href="#">Entrez Gene 952 Human P28907</a>



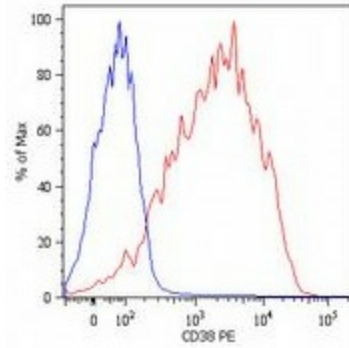
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**Background:**

CD38 (NAD<sup>+</sup> 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<sup>+</sup> glycohydrolase converting NAD<sup>+</sup> 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 anti-human CD38 (HIT2) PE.