

Product datasheet for **SM028P**

Cd38 Rat Monoclonal Antibody [Clone ID: 90]

Product data:

Product Type:	Primary Antibodies
Clone Name:	90
Applications:	FC, IHC, IP
Recommended Dilution:	Flow cytometry: 1/2- 1/20; use 10 µl of the suggested working dilution to label 10e6 cells in 100 µl. Immunoprecipitation. Immunohistochemistry on frozen sections.
Reactivity:	Mouse
Host:	Rat
Isotype:	IgG2a
Clonality:	Monoclonal
Immunogen:	Mouse pre-B cells derived from IL-7 dependent bone marrow cultures
Specificity:	This antibody recognises the CD38 cell surface antigen.
Formulation:	PBS containing 0.09% sodium azide State: Purified State: Liquid purified IgG fraction
Concentration:	lot specific
Conjugation:	Unconjugated
Storage:	Store the antibody at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	CD38 antigen
Database Link:	Entrez Gene 12494 Mouse P56528



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Background:

CD38 (T10) is a single chain 42 to 46 kDa type II integral transmembrane glycoprotein with a short N terminal cytoplasmic tail. CD38 is highly expressed on thymocytes. It is also expressed by early cells of B and T lineages, NK cells, plasma cells, monocytes and macrophages and may be detected on cells from multiple myeloma, ALL (B and T) and some AML. It is expressed by murine, but not human, hematopoietic progenitors. In normal lymph nodes and tonsils the antigen is detected mainly on B cells in germinal centers and in plasma cells. The extracellular domain of the molecule shares a high homology sequence with Aplysia ADP ribosyl cyclase. CD38 functions as a multicatalytic ectoenzyme serving as ADP ribosyl cyclase, ADPR hydrolase and possibly NAD⁺ glycohydrolase, or as a surface receptor.

Synonyms:

cADPr hydrolase 1, T10