

Product datasheet for **SM1174APC**

CD100 / SEMA4D Mouse Monoclonal Antibody [Clone ID: A8]

Product data:

Product Type:	Primary Antibodies
Clone Name:	A8
Applications:	FC
Recommended Dilution:	Flow Cytometry: Use 10 µl of neat-1/10 diluted antibody to label 10e6 cells in 100 µl.
Reactivity:	Human, Monkey
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Human PHA activated lymphocytes. Spleen cells from immunised BALB/c mice were fused with cells of the mouse NS1 myeloma cell line.
Specificity:	This antibody recognizes the human CD100 cell surface antigen.
Formulation:	PBS, pH 7.4 containing 5% sucrose, 0.09% Sodium Azide as preservative, 5% Sucrose and 1% BSA as stabilizer. Label: APC State: Lyophilized purified IgG fraction. Label: Allophycocyanin
Reconstitution Method:	Restore with 1 ml distilled water
Concentration:	lot specific
Conjugation:	APC
Storage:	Prior to and following reconstitution store the antibody undiluted 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:	semaphorin 4D
Database Link:	Entrez Gene 10507 Human Q92854



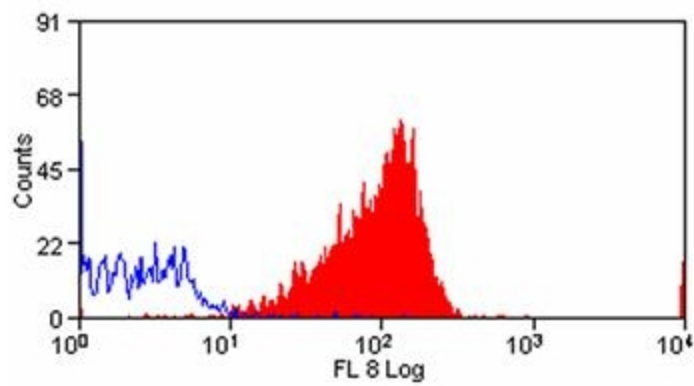
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Background:

Semaphorins are neuronal chemorepellants that direct pioneering neurons during nervous system development. CD100 (also known as semaphorin 4d), a 150 kDa homodimer, is a novel semaphorin that induces B cells to aggregate and improves their viability in vitro. CD100 modifies CD40-CD40L B cell signaling by augmenting B cell aggregation and survival and down regulating CD23 expression. CD72 is a lymphocyte receptor for the class IV semaphorin CD100, which is involved in regulating B cell signaling. CD100 is expressed on resting and PHA stimulated T cells. The protein is weakly expressed on NK cells, EBV transformed B cells, monocytes and tumor/peripheral blood T cell lines, and at higher density on activated T cells and B cells.

Synonyms:

Semaphorin-4D, SEMAJ, BB18, A8, GR3

Product images:

Peripheral Human lymphocytes stained with Mouse Anti Human CD100-APC (SM1174APC).