

Product datasheet for **SM1074B**

CD7 Mouse Monoclonal Antibody [Clone ID: LT7]

Product data:

Product Type:	Primary Antibodies
Clone Name:	LT7
Applications:	FC, IHC
Recommended Dilution:	Flow Cytometry: Use 10 µl of neat antibody label 10 ⁶ cells in 100 µl.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG2a
Clonality:	Monoclonal
Immunogen:	Normal human peripheral blood lymphocytes. Spleen cells from immunised BALB/c mice were fused with cells of the X63.653 mouse myeloma cell line.
Specificity:	This antibody is a single chain cell surface glycoprotein of 40kD, expressed by T cells, NK cells and thymocytes. CD7 is also expressed by tumour cells in some cases of acute myeloid leukaemia.
Formulation:	PBS, pH 7.4 Label: Biotin State: Liquid purified IgG fraction. Stabilizer: 1% BSA Preservative: 0.09% Sodium Azide
Concentration:	lot specific
Purification:	Affinity chromatography on Protein A
Conjugation:	Biotin
Storage:	Store undiluted 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:	CD7 molecule
Database Link:	Entrez Gene 924 Human P09564



[View online »](#)

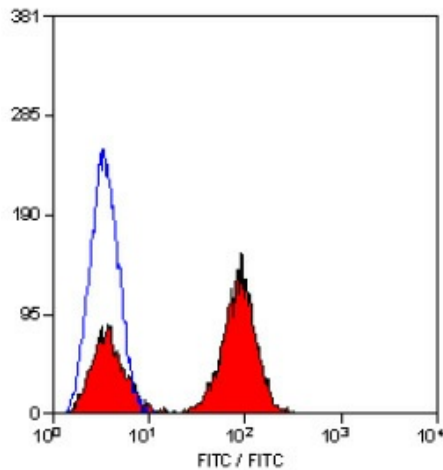
Background:

CD7 is a 40 kDa transmembrane, single-chain glycoprotein, which is a member of the immunoglobulin superfamily. CD7 is expressed by the majority of thymocytes and mature T cells, NK cells and pre-B cells. It plays an essential role in T-cell interactions and also in T-cell/B-cell interaction during early lymphoid development.

The function of CD7 is not yet known although cross-linking of CD7 with antibodies induces a T cell transmembrane calcium flux and CD7 expression is induced by ionomycin. The CD7 molecule has been reported to be the receptor for the IgM-Fc portion (FcR mu) on the surface of T cells.

Synonyms:

GP40, TP41, Leu-9

Product images:

Staining of human peripheral blood lymphocytes with Mouse Anti Human CD7 Antibody -Biotin conjugated