

Product datasheet for **AM05666FC-N**

Ly6a Rat Monoclonal Antibody [Clone ID: D7]

Product data:

Product Type:	Primary Antibodies
Clone Name:	D7
Applications:	FC
Recommended Dilution:	Flow Cytometry: 1/5 - 1/10.
Reactivity:	Mouse
Host:	Rat
Isotype:	IgG2a
Clonality:	Monoclonal
Immunogen:	IL-2-dependent mouse T cell line CTL-L.
Specificity:	This antibody recognises members of the lymphocyte activation protein-6 (Ly6) multigene family. Specifically, it recognises Ly6A.2 and Ly6E.1. Clone D7 has been reported to induce T cell activation.
Formulation:	Borate buffered saline pH8.0 containing 0.09% Sodium Azide and 1% Bovine Serum Albumin Label: FITC State: Liquid purified IgG Label: Fluorescein Isothiocyanate Isomer 1
Concentration:	lot specific
Conjugation:	FITC
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing. This product is photosensitive and should be protected from light.
Stability:	Shelf life: one year from despatch.
Gene Name:	lymphocyte antigen 6 complex, locus A
Database Link:	Entrez Gene 110454 Mouse P05533



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Background:

Ly6A/E is also known as stem cell antigen-1 (Sca-1). It is an 18kDa mouse glycosyl phosphatidylinositol-anchored cell surface protein of the Ly6 gene family. It is expressed on multipotent hematopoietic stem cells in bone marrow of mice with both the Ly6.1 and Ly6.2 allotypes. As such, it is the most common marker used for enriching adult hematopoietic stem cells. It has varied functions, it plays a role in bone formation, myoblast proliferation and differentiation and the activation and immunosuppressive function of T cells.

Synonyms:

Lymphocyte antigen 6A-2/6E-1, Ly-6A.2/Ly-6E.1, T-cell-activating protein, TAP, Stem cell antigen 1, SCA-1