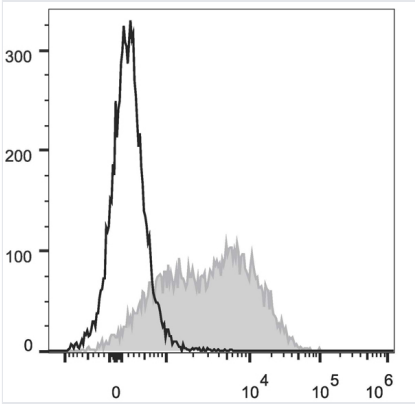
Ly6A/E Antibody – Rat Monoclonal

PRODUCT OVERVIEW

Product Name	Ly6A/E (Sca-1), Monoclonal Antibody
Full Product Name	Anti-Mouse Ly6A/E (Sca-1) Monoclonal Antibody (PerCP/Cyanine5.5 Conjugated) [D7]
Product Gene Name	anti-Ly6A/E antibody
Product Synonym Names	Mouse Ly6A/E(Sca-1); Ly6a; Ly6; Ly-6A.2/Ly-6E.1; SCA-1; TAP
Clonality	Monoclonal
Isotype	IgG2a, kappa
Clone Number	D7
Host	Rat
Species Reactivity	Mouse
Form/Format	PBS with 0.05% Proclin300, 1% BSA
Preparation and Storage	Store at 2-8 degree C and protect from prolonged exposure to light. Do not freeze.
Matching Pairs	Antibody: Ly6A/E (MBS2559398) Isotype Control: IgG2a Clone #2A3 (MBS2557846)
3D Structure	ModBase 3D Structure for P05533
Conjugation	PerCP/Cyanine5.5
Isotype Control	Rat IgG2a, kappa Isotype Control (PerCP/Cy5.5 Conjugated)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-Ly6A/E antibody	Flow Cytometry (FC/FACS)
Application Notes for anti-Ly6A/E antibody	Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. The amount of the reagent is suggested to be used 2 muL or 5 muL of antibody per test (million cells in 100 ul staining volume or per 100 ul of whole blood). Please check your vial before the experiment. Since applications vary, the appropriate dilutions must be determined for individual use.
Related Product Information for anti-Ly6A/E antibody	Ly-6A/E, also known as Sca-1, is an 18 kD member of the Ly-6 multigene family. Ly6A/E is a glycosylphosphatidylinositol (GPI)-linked protein expressed on hematopoietic stem cells. In mice expressing the Ly-6.2 haplotype (e.g., AKR, C57BL, C57BR, DBA/2, SJL, SWR, and 129), Ly-6A/E is also expressed on peripheral B lymphocytes and thymic and peripheral T lymphocytes. Strains expressing the Ly-6.1 haplotype (e.g., BALB/c, CBA, C3H/He, DBA/1, and NZB) have low Ly-6A/E expression on resting peripheral lymphocytes. The expression of Ly-6A/E on lymphocytes is upregulated upon activation from both Ly6.1 and Ly6.2 haplotype mice. Ly-6A/E is thought to be involved in the regulation of both T and B cell responses.
Other Notes	Small volumes of anti-Ly6A/E antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for Ly6A/E purchase	MBS2559398 is an antibody targeting Ly6A/E. Also known as Anti-Mouse Ly6A/E (Sca-1) Monoclonal Antibody (PerCP/Cyanine5.5 Conjugated) [D7]. Reactive in Mouse. Host: Rat.



Flow Cytometry (FC/FACS) of anti-Ly6A/E antibody
C57BL/6 murine lymphocytes are stained with Anti-Mouse Ly6A/E(Sca-1) Monoclonal Antibody(PerCP/Cyanine5.5 Conjugated)(filled gray histogram). Unstained lymphocytes (empty black histogram) are used as control.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Ly6A/E. It may not necessarily be applicable to this product.

NCBI GI #	406855394
NCBI GeneID	110454
NCBI Accession #	NP_001258345.1
UniProt Primary Accession #	P05533
UniProt Related Accession #	P05533
GenBank Nucleotide #	NP_001258345.1
NCBI Official Full Name	lymphocyte antigen 6A-2/6E-1
NCBI Official Synonym Full Names	lymphocyte antigen 6 complex, locus A
NCBI Official Symbol	Ly6a
NCBI Official Synonym Symbols	TAP; Sca1; Sca-1; Ly-6A.2; Ly-6A/E; Ly-6E.1
UniProt Protein Name	Lymphocyte antigen 6A-2/6E-1
UniProt Synonym Protein Names	Stem cell antigen 1; SCA-1; T-cell-activating protein; TAP
UniProt Gene Name	Ly6a
UniProt Synonym Gene Names	Ly6; Ly-6A.2/Ly-6E.1; SCA-1; TAP
UniProt Entry Name	LY6A_MOUSE
NCBI Protein Information	lymphocyte antigen 6A-2/6E-1
UniProt Comments for Ly6A/E	Ly6A: T-cell activation. Protein type: Cell surface Cellular Component: membrane; plasma membrane; intracellular; external side of plasma membrane
Research Articles on Ly6A/E	**1.** This study observed enrichment in subpopulations of mammary carcinoma cells expressing elevated surface levels of Sca-1 after cytotoxic treatment. Irradiation induces Sca-1-expressing cells with enhanced migratory and metastatic ability.

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