# Ly6A/E Antibody – Rat

## PRODUCT OVERVIEW

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| **Product Name** | Ly6A/E, Antibody |
| **Full Product Name** | AF647 Anti-Mouse Ly6A/E (Sca-1) Antibody |
| **Product Gene Name** | anti-Ly6A/E antibody |
| **Product Synonym Names** | Ly6a, Ly6, Ly-6A.2/Ly-6E.1, SCA-1, TAP |
| **Isotype** | Rat IgG2a, kappa |
| **Host** | Rat |
| **Species Reactivity** | Mouse |
| **Form/Format** | PBS with 0.05% Proclin300, 1% BSA |
| **Concentration** | 0.5mg/mL (lot specific) |
| **Preparation and Storage** | Store at 2~8 degree C and protected from prolonged exposure to light. Do not freeze. |
| **Molecular Weight** | 14,377 Da |
| **3D Structure** | ModBase 3D Structure for P05533 |
| **Conjugation** | AF647 |
| **Product Categories/Family for anti-Ly6A/E antibody** | Flow Cytometry Antibodies |
| **ISO Certification** | Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory. |
| **Applications Tested/Suitable for anti-Ly6A/E antibody** | Flow Cytometry (FC/FACS/FCM) |
| **Related Product Information for anti-Ly6A/E antibody** | MBS4515946 is an antibody targeting Ly6A/E. Also known as AF647 Anti-Mouse Ly6A/E (Sca-1) Antibody. Reactive in Mouse. Host: Rat. |
| **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. |

## ADDITIONAL DETAILS

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

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| **NCBI GI #** | 406855394 |
| **NCBI GeneID** | 110454 |
| **NCBI Accession #** | NP_001258345.1 |
| **UniProt Primary Accession #** | P05533 |
| **UniProt Secondary Accession #** | Q8BPD0 |
| **UniProt Related Accession #** | P05533 |
| **GenBank Nucleotide #** | NM_001271416.1 |
| **NCBI Official Full Name** | lymphocyte antigen 6A-2/6E-1 |

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| **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; T-cell-activating protein; stem cell antigen 1 |
| **UniProt Comments for Ly6A/E** | Ly6A: T-cell activation.<br><br>Protein type: Cell surface<br><br>Cellular Component: membrane; plasma membrane; intracellular; external side of plasma membrane |
| **Research Articles on Ly6A/E** | **1.** The more aggressive behavior of Ly6a/Sca-1 expressing leukemias is due at least in part to greater capacity to degrade microenvironmental stroma and invade tissues. |
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