

# LY6E Rabbit pAb

Catalog # AP96966

## Product Information

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| <b>Application</b>             | WB                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Primary Accession</b>       | <a href="#">Q64253</a>                                                                                                                                                                                                                                                                                                                                                                |
| <b>Other Accession</b>         | <a href="#">Q64253</a>                                                                                                                                                                                                                                                                                                                                                                |
| <b>Reactivity</b>              | Mouse                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Predicted</b>               | Rat                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Host</b>                    | Rabbit                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Clonality</b>               | Polyclonal                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Calculated MW</b>           | 14392                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Physical State</b>          | Liquid                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Immunogen</b>               | KLH conjugated synthetic peptide derived from mouse LY6E                                                                                                                                                                                                                                                                                                                              |
| <b>Epitope Specificity</b>     | 31-80/136                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Isotype</b>                 | IgG                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Purity</b>                  | affinity purified by Protein A                                                                                                                                                                                                                                                                                                                                                        |
| <b>Buffer</b>                  | Preservative: 0.02% Proclin300, Constituents: 1% BSA, 0.01M PBS, pH7.4.                                                                                                                                                                                                                                                                                                               |
| <b>SIMILARITY</b>              | Contains 1 UPAR/Ly6 domain.                                                                                                                                                                                                                                                                                                                                                           |
| <b>Important Note</b>          | This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.                                                                                                                                                                                                                                                             |
| <b>Background Descriptions</b> | This gene belongs to the human Ly6 gene family and encodes a glycosylphosphatidyl-inositol (GPI)-anchored cell surface protein. The protein plays an important role in T cell physiology, oncogenesis and immunological regulation. The protein is also involved in modulation of viral infection by coronaviruses, SARS-CoV, MERS-CoV and SARS-CoV-2. [provided by RefSeq, Aug 2021] |

## Additional Information

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| <b>Gene ID</b>     | 17069                                                                                                                                                                                                                                 |
| <b>Other Names</b> | Ly67; RIG-E; Sca-2; TSA-1; Tsa1; LY6E_MOUSE; Ly6e; Ly-6E; Stem cell antigen 2; Thymic shared antigen 1 (TSA-1); RIGE; SCA2; lymphocyte antigen 6 family member E; lymphocyte antigen 6 complex, locus E; retinoic acid induced gene E |
| <b>Dilution</b>    | WB=1:500-2000                                                                                                                                                                                                                         |
| <b>Storage</b>     | Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.                                       |

## Protein Information

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| <b>Name</b>              | Ly6e {ECO:0000312   MGI:MGI:106651}                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Synonyms</b>          | Ly67, Sca-2, Tsa-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Function</b>          | GPI-anchored cell surface protein that regulates T- lymphocytes proliferation, differentiation, and activation (PubMed: <a href="#">8642345</a> , PubMed: <a href="#">9575182</a> ). Regulates the T-cell receptor (TCR) signaling by interacting with component CD3Z/CD247 at the plasma membrane, leading to CD3Z/CD247 phosphorylation modulation (PubMed: <a href="#">9575182</a> ). Restricts the entry of murine coronavirus, mouse hepatitis virus, by interfering with spike protein-mediated membrane fusion (PubMed: <a href="#">32704094</a> ). Also plays an essential role in placenta formation by acting as the main receptor for syncytin-A (SynA) (PubMed: <a href="#">28679758</a> ). Therefore, participates in the normal fusion of syncytiotrophoblast layer I (SynT-I) and in the proper morphogenesis of both fetal and maternal vasculatures within the placenta (PubMed: <a href="#">29500366</a> ). May also act as a modulator of nicotinic acetylcholine receptors (nAChRs) activity. In vitro inhibits alpha- 3:beta-4-containing nAChRs maximum response (PubMed: <a href="#">26276394</a> ). |
| <b>Cellular Location</b> | Cell membrane; Lipid-anchor, GPI-anchor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Tissue Location</b>   | Ubiquitously expressed in mouse adult tissues with maximal expression in the lung and the salivary gland. Expression is strikingly lower in the fetal tissues except for the placenta (PubMed:28679758). Present in thymus where its expression is observed in immature thymocytes and thymic stromal cells (PubMed:1531995). Also found on functionally active T-cells as well as B-cells and thymic dendritic cells (PubMed:2987354).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.