

LY6E/Stem cell antigen 1 Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP57088

Specification

LY6E/Stem cell antigen 1 Polyclonal Antibody - Product Information

Application WB, IHC-P, IHC-F, IF, ICC

Primary Accession

Host
Clonality
Calculated MW
Physical State

Q16553
Rabbit
Polyclonal
14 KDa
Liquid

Immunogen KLH conjugated synthetic peptide derived

from human LY6E/Stem cell antigen 1

Epitope Specificity 31-100/131

lsotype IgG

Purity

affinity purified by Protein A

Buffer 0.01M TBS (pH7.4) with 1% BSA, 0.02%

Proclin300 and 50% Glycerol.

SIMILARITY Contains 1 UPAR/Ly6 domain.

Important Note

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

Background Descriptions

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]

LY6E/Stem cell antigen 1 Polyclonal Antibody - Additional Information

Gene ID 4061

Other Names

Lymphocyte antigen 6E, Ly-6E, Retinoic acid-induced gene E protein, RIG-E, Stem cell antigen 2, SCA-2, Thymic shared antigen 1, TSA-1, LY6E (HGNC:6727), 9804, RIGE, SCA2, TSA1

Target/Specificity

Widely expressed, predominantly in liver, kidney, ovary, spleen and peripheral blood Leukocytes.

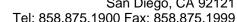
Dilution

WB~~1:1000/>span class

="dilution IHC-P">IHC-P~~N/A<br \><span class

="dilution_IHC-F">IHC-F~~N/A<br \><span class

="dilution_IF">IF \sim 1:50 \sim 200<br \>ICC \sim N/A





Storage

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.

LY6E/Stem cell antigen 1 Polyclonal Antibody - Protein Information

Name LY6E (<u>HGNC:6727</u>)

Synonyms 9804, RIGE, SCA2, TSA1

Function

GPI-anchored cell surface protein that regulates T- lymphocytes proliferation, differentiation, and activation. Regulates the T-cell receptor (TCR) signaling by interacting with component CD3Z/CD247 at the plasma membrane, leading to CD3Z/CD247 phosphorylation modulation (By similarity). Restricts the entry of human coronaviruses, including SARS-CoV, MERS-CoV and SARS-CoV-2, by interfering with spike protein-mediated membrane fusion (PubMed: 32641482). Also plays an essential role in placenta formation by acting as the main receptor for syncytin-A (SynA). 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. May also act as a modulator of nicotinic acetylcholine receptors (nAChRs) activity (By similarity).

Cellular Location

Cell membrane {ECO:0000250|UniProtKB:Q64253}; Lipid-anchor, GPI-anchor {ECO:0000250|UniProtKB:Q64253}

Tissue Location

Widely expressed, predominantly in liver, kidney, ovary, spleen and peripheral blood Leukocytes

LY6E/Stem cell antigen 1 Polyclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

LY6E/Stem cell antigen 1 Polyclonal Antibody - Images