

# LY6E/Stem cell antigen 1 Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP57088

## Product Information

<b>Application</b>	WB, IHC-P, IHC-F, IF, ICC
<b>Primary Accession</b>	<a href="#">Q16553</a>
<b>Reactivity</b>	Human
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Calculated MW</b>	13507
<b>Physical State</b>	Liquid
<b>Immunogen</b>	KLH conjugated synthetic peptide derived from human LY6E/Stem cell antigen 1
<b>Epitope Specificity</b>	31-100/131
<b>Isotype</b>	IgG
<b>Purity</b>	affinity purified by Protein A
<b>Buffer</b>	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
<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

<b>Gene ID</b>	4061
<b>Other Names</b>	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 ( <a href="#">HGNC:6727</a> ), 9804, RIGE, SCA2, TSA1
<b>Target/Specificity</b>	Widely expressed, predominantly in liver, kidney, ovary, spleen and peripheral blood Leukocytes.
<b>Dilution</b>	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,ICC=1:100-500,IF=1:100-500
<b>Format</b>	0.01M TBS(pH7.4) with 1% BSA, 0.09% (W/V) sodium azide and 50% Glyce
<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 ( <a href="#">HGNC:6727</a> )
<b>Synonyms</b>	9804, RIGE, SCA2, TSA1
<b>Function</b>	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: <a href="#">32641482</a> ). 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).
<b>Cellular Location</b>	Cell membrane {ECO:0000250 UniProtKB:Q64253}; Lipid-anchor, GPI-anchor {ECO:0000250 UniProtKB:Q64253}
<b>Tissue Location</b>	Widely expressed, predominantly in liver, kidney, ovary, spleen and peripheral blood Leukocytes

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