

LY6E Antibody (Center)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP13818c**Specification**

LY6E Antibody (Center) - Product Information

Application	WB,E
Primary Accession	Q16553
Other Accession	NP_002337.1 , NP_001120685.1
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	13507
Antigen Region	41-70

LY6E Antibody (Center) - 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, RIGE, SCA2, TSA1

Target/Specificity

This LY6E antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 41-70 amino acids from the Central region of human LY6E.

Dilution

WB~~1:1000

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

LY6E Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

LY6E Antibody (Center) - Protein Information**Name** LY6E ([HGNC:6727](#))**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

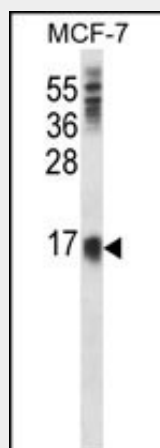
Widely expressed, predominantly in liver, kidney, ovary, spleen and peripheral blood Leukocytes

LY6E Antibody (Center) - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

LY6E Antibody (Center) - Images



LY6E Antibody (Center) (Cat. #AP13818c) western blot analysis in MCF-7 cell line lysates (35ug/lane). This demonstrates the LY6E antibody detected the LY6E protein (arrow).

LY6E Antibody (Center) - Background

Sca1, also known as Ly6A/E, is a member of the Ly6 multigene family of type V glycosylphosphatidylinositol anchored cell surface proteins. It is expressed on multipotent

hematopoietic stem cells in bone marrow of mice with both the Ly6.1 and Ly6.2 allotypes. In the periphery, Sca1 exhibits a pattern of expression which is based on differences between the two allotypes. Ly6.1 strains (e.g., A, BALB/c, CBA, C3H/He, DBA/1, NZB) have few Sca1+ resting peripheral lymphocytes, whereas Ly6.2 strains (e.g., AKR, C57BL, C57BR, C57L, DBA/2, PL, SJL, SWR, 129) have relatively high numbers of Sca1+ lymphocytes. The expression of Sca1 is dramatically upregulated in all strains upon cellular activation.

LY6E Antibody (Center) - References

- Davila, S., et al. Genes Immun. 11(3):232-238(2010)
Wang, J.L., et al. Mov. Disord. 24(13):2007-2011(2009)
Socal, M.P., et al. Parkinsonism Relat. Disord. 15(5):374-378(2009)
Tang, J., et al. Lupus 17(9):805-813(2008)
Wang, A.G., et al. Biochem. Biophys. Res. Commun. 345(3):1022-1032(2006)