

Rabbit anti-Human LY6E/SCA-2 Polyclonal Antibody | anti-LY6E antibody

Anti-LY6E/SCA-2 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA125806	Rabbit	Human	ELISA, Flow Cytometry, Functional Assay, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

LY6E/SCA-2; Polyclonal Antibody; Anti-LY6E/SCA-2 Antibody; LY6E; 9804; RIGE; SCA2; TSA1; 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; lymphocyte antigen 6 family member E; anti-LY6E antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4mg Trehalose, 0.9mg NaCl and 0.2mg Na ₂ HPO ₄ .
Applicable Applications for anti-LY6E antibody	ELISA (Direct ELISA), FCM/FACS (Flow Cytometry), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	E Coli-derived human LY6E/SCA-2 recombinant protein (Position: L21-S101).
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Recommended Detection Systems	Lab recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG () for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit () for IHC(P).
Preparation and Storage	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.

IMAGES



FCM/FACS (Flow Cytometry)

Figure 2. Flow Cytometry analysis of SiHa cells using anti-LY6E/SCA-2 antibody (AAA125806). Overlay histogram showing SiHa cells stained with AAA125806 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-LY6E/SCA-2 Antibody (AAA125806, 1µg/1x10⁶ cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG (5-10µg/1x10⁶ cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1µg/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



WB (Western Blot)

Figure 1. Western blot analysis of LY6E/SCA-2 using anti-LY6E/SCA-2 antibody (AAA125806). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30ug of sample under reducing conditions. Lane 1: human A549 whole cell lysates. After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1. 5 hour at RT. The membrane was incubated with rabbit anti-LY6E/SCA-2 antigen affinity purified polyclonal antibody (Catalog # AAA125806) at 0. 5 µg/mL overnight at 4 degree C, then washed with TBS-0. 1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1. 5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog #) with Tanon 5200 system. A specific band was detected for LY6E/SCA-2 at approximately 14KD. The expected band size for LY6E/SCA-2 is at 14KD.

ADDITIONAL INFORMATION

Related Product Information for anti-LY6E antibody	Lymphocyte antigen 6E is a protein that in humans is encoded by the LY6E gene. Increased expression of Ly6E is associated with poor survival outcome in multiple malignancies as determined by a survey of more than 130 published clinical studies of gene expression studies on cancer tissue samples and adjacent normal tissues. Ly6E is associated with drug resistance and tumor immune escape in breast cancer. Further research is required to validate Ly6E for translation research.
References	1. Mao, M., Yu, M., Tong, J. -H., Ye, J., Zhu, J., Huang, Q. -H., Fu, G., Yu, L., Zhao, S. -Y., Waxman, S., Lanotte, M., Wang, Z. -Y., Tan, J. -Z., Chan, S. -J., Chen, Z. RIG-E, a human homolog of the murine Ly-6 family, is induced by retinoic acid during the differentiation of acute promyelocytic leukemia cell. Proc. Nat. Acad. Sci. 93: 5910-5914, 1996. 2. Shan, X., Bourdeau, A., Rhoton, A., Wells, D. E., Cohen, E. H., Landgraf, B. E., Palfree, R. G. E. Characterization and mapping to human chromosome 8q24. 3 of Ly-6-related gene 9804 encoding an apparent homologue of mouse TSA-1. J. Immun. 160: 197-208, 1998.

NCBI AND UNIPROT INFORMATION

NCBI GI #	187761331
NCBI GeneID	4061
NCBI Accession #	NP_001120685.1
NCBI GenBank Nucleotide #	NM_001127213.1
UniProt Accession #	Q16553; Q0VDE5; B2R4X5; D3DWJ2
NCBI Official Full Name	lymphocyte antigen 6E
NCBI Official Synonym Full Names	lymphocyte antigen 6 complex, locus E
NCBI Official Symbol	LY6E
NCBI Official Synonym Symbols	RIGE; SCA2; RIG-E; SCA-2; TSA-1
NCBI Protein Information	lymphocyte antigen 6E; ly-6E; stem cell antigen 2; thymic shared antigen 1; retinoic acid induced gene E; retinoic acid-induced gene E protein
UniProt Protein Name	Lymphocyte antigen 6E
UniProt Gene Name	LY6E
UniProt Synonym Gene Names	9804; RIGE; SCA2; TSA1; Ly-6E; RIG-E; SCA-2; TSA-1
UniProt Entry Name	LY6E_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.