

Rabbit anti-Human GK5 Polyclonal Antibody | anti-GK5 antibody

Anti-GK5 Antibody Picoband

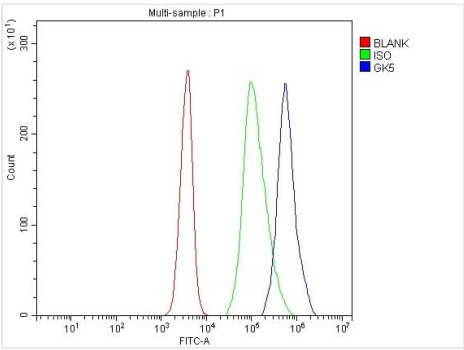
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127877	Rabbit	Human	ELISA, Flow Cytometry, Functional Assay, Western Blot

PRODUCT SYNONYMS

GK5; Polyclonal Antibody; Anti-GK5 Antibody Picoband; anti-GK5 antibody

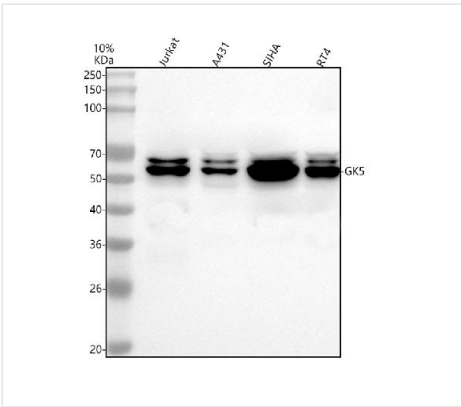
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Applicable Applications for anti-GK5 antibody	ELISA, FCM/FACS (Flow Cytometry), WB (Western Blot)
Immunogen	E coli-derived human GK5 recombinant protein (Position: D37-K402). Human GK5 shares 82.2% amino acid (aa) sequence identity with mouse GK5.
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500ug/ml.
Preparation and Storage	At -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months.Avoid repeated freezing and thawing.



FCM/FACS (Flow Cytometry)

Figure 2. Flow Cytometry analysis of JK cells using anti-GK5 antibody (AAA127877). Overlay histogram showing JK cells stained with AAA127877 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-GK5 Antibody (AAA127877, 1ug/1x10⁶ cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x10⁶) used under the same conditions. Unlabelled sample without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.



WB (Western Blot)

Figure 1. Western blot analysis of GK5 using anti-GK5 antibody (AAA127877). 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 30 ug of sample under reducing conditions. Lane 1: human Jurkat whole cell lysates, Lane 2: human A431 whole cell lysates, Lane 3: human SiHa whole cell lysates, Lane 4: human RT4 whole cell lysates. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA 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-GK5 antigen affinity purified polyclonal antibody (#AAA127877) at 0.5ug/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 with Tanon 5200 system. A specific band was detected for GK5 at approximately 59 kDa. The expected band size for GK5 is at 59 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-GK5 antibody	The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Product Categories/Family for anti-GK5 antibody	Primary Antibodies
References	1. Stumpf, A. M. Personal Communication. Baltimore, Md. 04/26/2024.2. Zhang, D., Tomisato, W., Su, L., Sun, L., Choi, J. H., Zhang, Z., Wang, K., Zhan, X., Choi, M., Li, X., Tang, M., Castro-Perez, J. M., Hildebrand, S., Murray, A. R., Moresco, E. M. Y., Beutler, B. Skin-specific regulation of SREBP processing and lipid biosynthesis by glycerol kinase 5. Proc. Nat. Acad. Sci. 114: E5197-E5206, 2017.

NCBI AND UNIPROT INFORMATION

NCBI GI #	88196792
NCBI GeneID	256356
NCBI Accession #	NP_001034636.1
NCBI GenBank Nucleotide #	NM_001039547.2
UniProt Accession #	Q6ZS86; Q8N2A7; Q8N5E6; B2R9I2; D3DNG2
Molecular Weight	27,801 Da
NCBI Official Full Name	putative glycerol kinase 5
NCBI Official Synonym Full Names	glycerol kinase 5 (putative)
NCBI Official Symbol	GK5
NCBI Protein Information	putative glycerol kinase 5; ATP:glycerol 3-phosphotransferase 5; GK 5; glycerokinase 5

UniProt Protein Name	Putative glycerol kinase 5
UniProt Gene Name	GK5
UniProt Synonym Gene Names	GK 5; Glycerokinase 5
UniProt Entry Name	GLPK5_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.

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Online datasheet: <https://www.aaabiotech.com/polyclonal/gk5-antibody-flow-cytometry-western-blot-elisa/127877>