

Anti-GK5 Antibody Picoband™

Catalog Number: A15997

About GK5

Glycerol kinase 5 (GK5), encoded by the GK5 gene, is a member of the glycerol kinase family involved in glycerol metabolism. While its specific functions are still being elucidated, GK5 is implicated in various physiological processes such as energy metabolism and lipid homeostasis, warranting further investigation into its role and potential implications in health and disease.

Overview

Product Name	Anti-GK5 Antibody Picoband™
Reactive Species	Human
Description	Boster Bio Anti-GK5 Antibody Picoband™ catalog # A15997. Tested in WB, FCM, ELISA applications. This antibody reacts with Human.
Application	ELISA, Flow Cytometry, WB
Clonality	Polyclonal
Formulation	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Storage Instructions	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 freezing and thawing.
Host	Rabbit
Uniprot ID	Q6ZS86

Technical Details

Immunogen	E.coli-derived human GK5 recombinant protein (Position: D37-K402). Human GK5 shares 82.2% amino acid (aa) sequence identity with mouse GK5.
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot.
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	Dilute the sample so that the expected range of concentrations fall within the detection range of this kit. If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples. Some PubMed article(s) citing the expression level of this target are as follows:

Boster Bio's internal QC testing used:
Western blot, 0.25-0.5 ug/ml, Human
Flow Cytometry (Fixed), 1-3 ug/ 1×10^6 cells, Human
ELISA, 0.1-0.5 ug/ml, Human

Anti-GK5 Antibody Picoband™ (A15997) Images

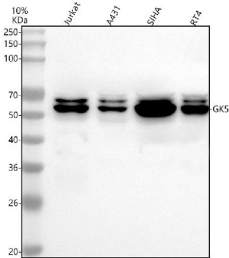


Figure 1. Western blot analysis of GK5 using anti-GK5 antibody (A15997).

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 (Catalog # A15997) at 0.5 ug/mL overnight at 4°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 # EK1002) 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.

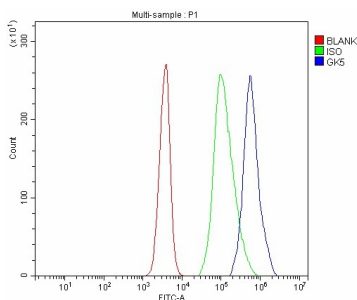


Figure 2. Flow Cytometry analysis of JK cells using anti-GK5 antibody (A15997).

Overlay histogram showing JK cells stained with A15997 (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 (A15997, 1 ug/1x10⁶ cells) for 30 min at 20°C. DyLight®488 conjugated goat anti-rabbit IgG (BA1127, 5-10 ug/1x10⁶ cells) was used as secondary antibody for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG (1 ug/1x10⁶) used under the same conditions. Unlabelled sample without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.

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