

Rabbit Glycerol kinase Polyclonal Antibody | anti-GK antibody

Anti-Glycerol kinase Picoband antibody

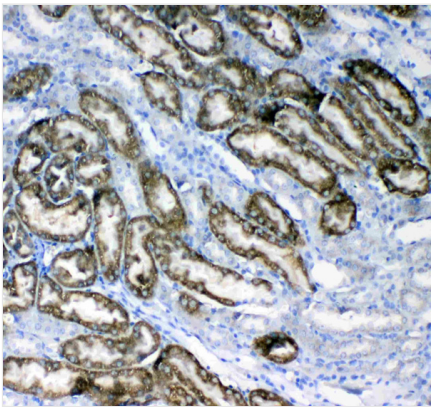
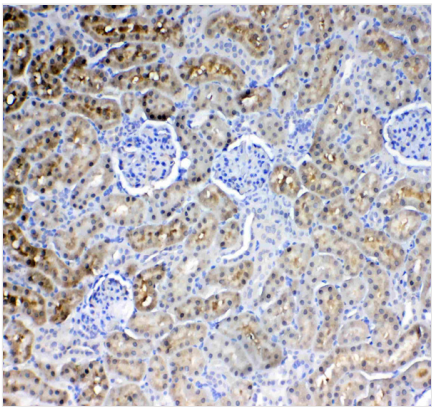
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA124696	Rabbit	Human, Mouse, Rat No cross reactivity with other proteins.	Western Blot, Immunohistochemistry, ELISA

PRODUCT SYNONYMS

Glycerol kinase; Polyclonal Antibody; Anti-Glycerol kinase Picoband antibody; GK; Glycerokinase; ATP: glycerol 3-phosphotransferase; anti-GK antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat No cross reactivity with other proteins.
Clonality	Polyclonal
Isotype	Rabbit IgG
Purity/Purification	Immunogen affinity purified
Form/Format	Lyophilized
Sequence Length	530
Applicable Applications for anti-GK antibody	WB (Western Blot), IHC (Immunohistochemistry), ELISA
Immunogen	E Coli-derived human Glycerol kinase recombinant protein (Position: M1-S180).
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Contents	Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
Relevant Detection Systems	Enhanced Chemiluminescent Kit with anti-Rabbit (please inquire) 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. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.

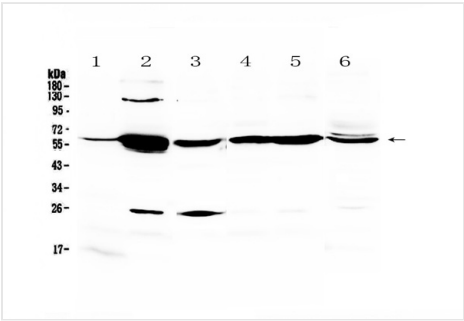


IHC (Immunohistochemistry)

Figure 3. IHC analysis of Glycerol kinase using anti-Glycerol kinase antibody (AAA124696).Glycerol kinase was detected in paraffin-embedded section of rat kidney tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-Glycerol kinase Antibody (AAA124696) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.

IHC (Immunohistochemistry)

Figure 2. IHC analysis of Glycerol kinase using anti-Glycerol kinase antibody (AAA124696).Glycerol kinase was detected in paraffin-embedded section of mouse kidney tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-Glycerol kinase Antibody (AAA124696) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



WB (Western Blot)

Figure 1. Western blot analysis of Glycerol kinase using anti-Glycerol kinase antibody (AAA124696).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 50ug of sample under reducing conditions.Lane 1: human placenta tissue lysates,Lane 2: human HepG2 whole cell lysates,Lane 3: human SW579 whole cell lysates,Lane 4: human SK-OV-3 whole cell lysates,Lane 5: human U-87MG whole cell lysates,Lane 6: rat testis tissue 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-Glycerol kinase antigen affinity purified polyclonal antibody 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 1:10000 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 Glycerol kinase at approximately 61KD. The expected band size for Glycerol kinase is at 61KD.

ADDITIONAL INFORMATION

Related Product Information for anti-GK antibody	Description: Glycerol kinase is a phosphotransferase enzyme involved in triglycerides and glycerophospholipids synthesis. The protein encoded by this gene belongs to the FGGY kinase family. This protein is a key enzyme in the regulation of glycerol uptake and metabolism. It catalyzes the phosphorylation of glycerol by ATP, yielding ADP and glycerol-3-phosphate. Mutations in this gene are associated with glycerol kinase deficiency (GKD). Alternatively spliced transcript variants encoding different isoforms have been found for this gene. Protein Function: Key enzyme in the regulation of glycerol uptake and metabolism.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	4504007
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NCBI GeneID	2710
NCBI Accession #	NP_000158.1
NCBI GenBank Nucleotide #	NM_000167.5
UniProt Accession #	P32189; Q6IQ27; Q8IVR5; Q9UMP0; Q9UMP1; A6NJP5; B2R833
NCBI Official Full Name	glycerol kinase isoform b
NCBI Official Synonym Full Names	glycerol kinase
NCBI Official Symbol	GK
NCBI Official Synonym Symbols	GK1; GKD
NCBI Protein Information	glycerol kinase
UniProt Protein Name	Glycerol kinase
UniProt Gene Name	GK
UniProt Synonym Gene Names	GK; Glycerokinase

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://stage.aaabiotech.com/polyclonal/glycerol-kinase-antibody-western-blot-immunohistochemistry-elisa/124696>