

Rabbit anti-Human PHKG1 Polyclonal Antibody | anti-PHKG1 antibody

Anti-PHKG1 Antibody Picoband

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127749	Rabbit	Human	ELISA, Flow Cytometry, Functional Assay, Western Blot

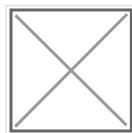
PRODUCT SYNONYMS

PHKG1; Polyclonal Antibody; Anti-PHKG1 Antibody Picoband; anti-PHKG1 antibody

PRODUCT SPECIFICATIONS

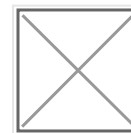
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
Applicable Applications for anti-PHKG1 antibody	ELISA, FCM/FACS (Flow Cytometry), WB (Western Blot)
Immunogen	E coli-derived human PHKG1 recombinant protein (Position: E62-R353). Human PHKG1 shares 93.8% and 94.2% amino acid (aa) sequence identity with mouse and rat PHKG1, respectively.
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.

IMAGES



FCM/FACS (Flow Cytometry)

Figure 2. Flow Cytometry analysis of JK cells using anti-PHKG1 antibody (AAA127749).Overlay histogram showing JK cells stained with AAA127749 (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-PHKG1 Antibody (AAA127749, 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 (Red line) was also used as a control.



WB (Western Blot)

Figure 1. Western blot analysis of PHKG1 using anti-PHKG1 antibody (AAA127749).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 U251 whole cell lysates,Lane 2: human A431 whole cell lysates,Lane 3: human Jurkat 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-PHKG1 antigen affinity purified polyclonal antibody (#AAA127749) 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 PHKG1 at approximately 40 kDa. The expected band size for PHKG1 is at 45 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-PHKG1 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.
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Product Categories/Family for anti-PHKG1 antibody	Primary Antibodies
References	1. Burwinkel, B., Hu, B., Schroers, A., Clemens, P. R., Moses, S. W., Shin, Y. S., Pongratz, D., Vorgerd, M., Kilimann, M. W. Muscle glycogenosis with low phosphorylase kinase activity: mutations in PHKA1, PHKG1 or six other candidate genes explain only a minority of cases. <i>Europ. J. Hum. Genet.</i> 11: 516-526, 2003. 2. Chamberlain, J. S., vanTuinen, P., Reeves, A. A., Philip, B. A., Caskey, C. T. Isolation of cDNA clones for the catalytic gamma subunit of mouse muscle phosphorylase kinase: expression of mRNA in normal and mutant Phk mice. <i>Proc. Nat. Acad. Sci.</i> 84: 2886-2890, 1987.3. Jones, T. A., da Cruz e Silva, E. F., Spurr, N. K., Sheer, D., Cohen, P. T. Localization of the gene encoding the catalytic gamma subunit of phosphorylase kinase to human chromosome bands 7p12-q21. <i>Biochim. Biophys. Acta</i> 1048: 24-29, 1990.

NCBI AND UNIPROT INFORMATION

NCBI GI #	386642885
NCBI GeneID	5260
NCBI Accession #	NP_001245388.1
NCBI GenBank Nucleotide #	NM_001258459.1
UniProt Accession #	Q16816 ; Q75LP5 ; B7Z1D0 ; F5H2S1
Molecular Weight	45,024 Da
NCBI Official Full Name	phosphorylase b kinase gamma catalytic chain, skeletal muscle/heart isoform isoform 1
NCBI Official Synonym Full Names	phosphorylase kinase, gamma 1 (muscle)
NCBI Official Symbol	PHKG1
NCBI Official Synonym Symbols	PHKG
NCBI Protein Information	phosphorylase b kinase gamma catalytic chain, skeletal muscle/heart isoform; PHK-gamma-M; phosphorylase kinase gamma; phosphorylase kinase subunit gamma-1; serine/threonine-protein kinase PHKG1; phosphorylase b kinase gamma catalytic chain, skeletal muscl
UniProt Protein Name	Phosphorylase b kinase gamma catalytic chain, skeletal muscle/heart isoform
UniProt Gene Name	PHKG1
UniProt Synonym Gene Names	PHKG; PHK-gamma-M
UniProt Entry Name	PHKG1_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://stage.aaabiotech.com/polyclonal/phkg1-antibody-flow-cytometry-western-blot-elisa/127749>