

Rabbit GKAP1 Polyclonal Antibody | anti-GKAP1 antibody

Anti-GKAP1 Antibody Picoband

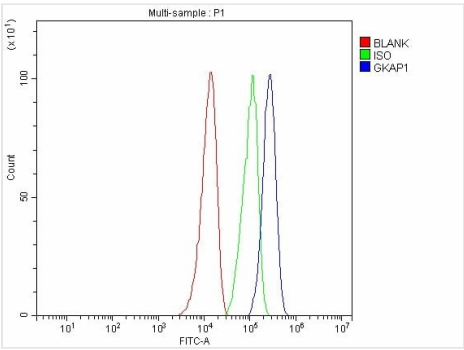
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127832	Rabbit	Human, Mouse, Rat	Western Blot, Flow Cytometry, Functional Assay, ELISA

PRODUCT SYNONYMS

GKAP1; Polyclonal Antibody; Anti-GKAP1 Antibody Picoband; anti-GKAP1 antibody

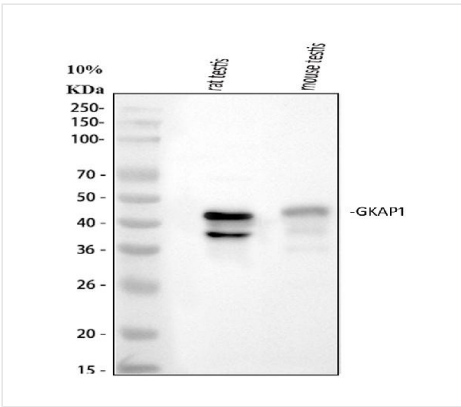
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
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-GKAP1 antibody	WB (Western Blot), FCM/FACS (Flow Cytometry), ELISA
Immunogen	E coli-derived human GKAP1 recombinant protein (Position: E69-R366). Human GKAP1 shares 87.2% and 89.6% amino acid (aa) sequence identity with mouse and rat GKAP1.
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 SH-SY5Y cells using anti-GKAP1 antibody (AAA127832). Overlay histogram showing SH-SY5Y cells stained with AAA127832 (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-GKAP1 Antibody (AAA127832, 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 GKAP1 using anti-GKAP1 antibody (AAA127832). 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: rat testis tissue lysates, Lane 2: mouse testis tissue 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-GKAP1 antigen affinity purified polyclonal antibody (#AAA127832) 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 GKAP1 at approximately 40-42 kDa. The expected band size for GKAP1 is at 42 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-GKAP1 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-GKAP1 antibody	Primary Antibodies
References	1. Sweetser, D. A., Peniket, A. J., Haaland, C., Blomberg, A. A., Zhang, Y., Zaidi, S. T., Dayyani, F., Zhao, Z., Heerema, N. A., Boultonwood, J., Dewald, G. W., Paietta, E., Slovak, M. L., Willman, C. L., Wainscoat, J. S., Bernstein, I. D., Daly, S. B. Delineation of the minimal commonly deleted segment and identification of candidate tumor-suppressor genes in del(9q) acute myeloid leukemia. Genes Chromosomes Cancer 44: 279-291, 2005.2. Yuasa, K., Omori, K., Yanaka, N. Binding and phosphorylation of a novel male germ cell-specific cGMP-dependent protein kinase-anchoring protein by cGMP-dependent protein kinase I-alpha. J. Biol. Chem. 275: 4897-4905, 2000.

NCBI AND UNIPROT INFORMATION

NCBI GI #	209915617
NCBI GeneID	80318
NCBI Accession #	NP_001129425.1
NCBI GenBank Nucleotide #	NM_001135953.1
UniProt Accession #	Q5VSY0; Q96LI0; Q9BYI1; Q9BYI2; Q9H225
Molecular Weight	42,078 Da
NCBI Official Full Name	G kinase-anchoring protein 1 isoform b
NCBI Official Synonym Full Names	G kinase anchoring protein 1
NCBI Official Symbol	GKAP1

NCBI Official Synonym Symbols	FKSG21; GKAP42
NCBI Protein Information	G kinase-anchoring protein 1; protein kinase anchoring protein GKAP42; cGMP-dependent protein kinase anchoring protein 42kDa; cGMP-dependent protein kinase-anchoring protein of 42 kDa
UniProt Protein Name	G kinase-anchoring protein 1
UniProt Gene Name	GKAP1
UniProt Synonym Gene Names	GKAP42; FKSG21
UniProt Entry Name	GKAP1_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/gkap1-antibody-western-blot-flow-cytometry-elisa/127832>