

Rabbit GANAB Polyclonal Antibody | anti-GANAB antibody

Anti-GANAB Antibody Picoband

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127603	Rabbit	Human, Mouse, Rat	Western Blot, Immunocytochemistry, Immunohistochemistry, Immunofluorescence, Flow Cytometry, Functional Assay, ELISA

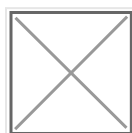
PRODUCT SYNONYMS

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

PRODUCT SPECIFICATIONS

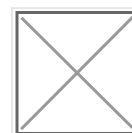
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Applicable Applications for anti-GANAB antibody	WB (Western Blot), ICC (Immunocytochemistry), IHC (Immunohistochemistry), IF (Immunofluorescence), FCM/FACS (Flow Cytometry), ELISA
Immunogen	E coli-derived human GANAB recombinant protein (Position: Q68-R944). Human GANAB shares 92% amino acid (aa) sequence identity with mouse GANAB.
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 5. Flow Cytometry analysis of SH-SY5Y cells using anti-GANAB antibody (AAA127603).Overlay histogram showing SH-SY5Y cells stained with AAA127603 (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-GANAB Antibody (AAA127603, 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.



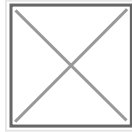
IF (Immunofluorescence)

Figure 4. IF analysis of GANAB using anti-GANAB antibody (AAA127603).GANAB was detected in a paraffin-embedded section of human placenta tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 5ug/mL rabbit anti-GANAB Antibody (AAA127603) overnight at 4 degree C. DyLight488 Conjugated Goat Anti-Rabbit IgG was used as secondary antibody at 1:500 dilution and incubated for 30 minutes at 37 degree C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.



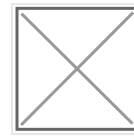
IF (Immunofluorescence)

Figure 3. IF analysis of GANAB using anti-GANAB antibody (AAA127603). GANAB was detected in an immunocytochemical section of HELA cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 5ug/mL rabbit anti-GANAB Antibody (AAA127603) overnight at 4 degree C. DyLight488 Conjugated Goat Anti-Rabbit IgG was used as secondary antibody at 1:500 dilution and incubated for 30 minutes at 37 degree C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.



WB (Western Blot)

Figure 1. Western blot analysis of GANAB using anti-GANAB antibody (AAA127603). 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 placenta tissue lysates, Lane 2: human THP-1 whole cell lysates, Lane 3: human Hela whole cell lysates, Lane 4: human A431 whole cell lysates, Lane 5: rat brain tissue lysates, Lane 6: rat kidney tissue lysates, Lane 7: mouse brain tissue lysates, Lane 8: mouse kidney 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-GANAB antigen affinity purified polyclonal antibody (#AAA127603) at 0.25ug/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 GANAB at approximately 100 kDa. The expected band size for GANAB is at 107 kDa.



IHC (Immunohistochemistry)

Figure 2. IHC analysis of GANAB using anti-GANAB antibody (AAA127603). GANAB was detected in a paraffin-embedded section of human placenta tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-GANAB Antibody (AAA127603) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit with DAB as the chromogen.

ADDITIONAL INFORMATION

Related Product Information for anti-GANAB 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-GANAB antibody	Primary Antibodies
References	1. Besse, W., Choi, J., Ahram, D., Mane, S., Sanna-Cherchi, S., Torres, V., Somlo, S. A noncoding variant in GANAB explains isolated polycystic liver disease (PCLD) in a large family. Hum. Mutat. 39: 378-382, 2018.2. Martiniuk, F., Smith, M., Desnick, R., Astrin, K., Mitra, J., Hirschhorn, R. Assignment of the gene for neutral alpha-glucosidase AB to chromosome 11. (Abstract) Am. J. Hum. Genet. 34: 173A only, 1982.3. Martiniuk, F., Smith, M., Ellenbogen, A., Desnick, R. J., Astrin, K., Mitra, J., Hirschhorn, R. Assignment of the gene for neutral alpha-glucosidase AB to chromosome 11. Cytogenet. Cell Genet. 35: 110-116, 1983.

NCBI AND UNIPROT INFORMATION

NCBI GI #	38202257
NCBI GeneID	23193
NCBI Accession #	NP_938148
NCBI GenBank Nucleotide #	NM_198334
UniProt Accession #	Q14697 ; Q8WTS9 ; Q9P0X0 ; A6NC20
Molecular Weight	5,673 Da
NCBI Official Full Name	neutral alpha-glucosidase AB isoform 2

NCBI Official Synonym Full Names	glucosidase, alpha; neutral AB
NCBI Official Symbol	GANAB
NCBI Official Synonym Symbols	G2AN; GLUII
NCBI Protein Information	neutral alpha-glucosidase AB; HEL-S-164nA; alpha glucosidase II alpha subunit; alpha-glucosidase 2; epididymis secretory sperm binding protein Li 164nA; glucosidase II subunit alpha
UniProt Protein Name	Neutral alpha-glucosidase AB
UniProt Gene Name	GANAB
UniProt Synonym Gene Names	G2AN; KIAA0088
UniProt Entry Name	GANAB_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/ganab-antibody-western-blot-immunocytochemistry-immunohistochemistry-immunofluorescence-flow-cytometry-elisa/127603>