

Rabbit GBA2 Polyclonal Antibody | anti-GBA2 antibody

Anti-GBA2 Antibody Picoband

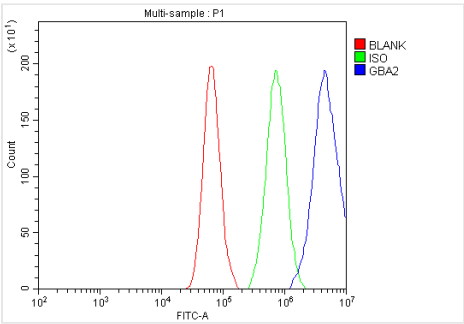
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127496	Rabbit	Human, Mouse, Rat	ELISA, Flow Cytometry, Functional Assay, Western Blot

PRODUCT SYNONYMS

GBA2; Polyclonal Antibody; Anti-GBA2 Antibody Picoband; anti-GBA2 antibody

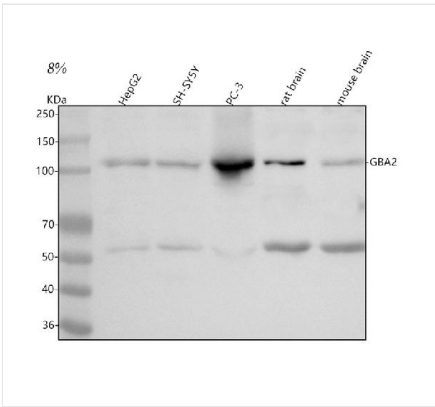
PRODUCT SPECIFICATIONS

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-GBA2 antibody	ELISA, FCM/FACS (Flow Cytometry), WB (Western Blot)
Immunogen	E coli-derived human GBA2 recombinant protein (Position: E17-Q869). Human GBA2 shares 88.5% and 90.2% amino acid (aa) sequence identity with mouse and rat GBA2, 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.



FCM/FACS (Flow Cytometry)

Figure 2. Flow Cytometry analysis of A549 cells using anti-GBA2 antibody (AAA127496). Overlay histogram showing A549 cells stained with AAA127496 (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-GBA2 Antibody (AAA127496, 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 GBA2 using anti-GBA2 antibody (AAA127496). 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 HepG2 whole cell lysates, Lane 2: human SH-SY5Y whole cell lysates, Lane 3: human PC-3 whole cell lysates, Lane 4: rat brain tissue lysates, Lane 5: mouse brain 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-GBA2 antigen affinity purified polyclonal antibody (#AAA127496) 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 GBA2 at approximately 105 kDa. The expected band size for GBA2 is at 105 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-GBA2 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-GBA2 antibody	Primary Antibodies
References	1. Boot, R. G., Verhoek, M., Donker-Koopman, W., Strijland, A., van Marle, J., Overkleeft, H. S., Wennekes, T., Aerts, J. M. F. G. Identification of the non-lysosomal glucosylceramidase as beta-glucosidase 2. J. Biol. Chem. 282: 1305-1312, 2007. 2. Boukhris, A., Feki, I., Elleuch, N., Miladi, M. I., Boland-Auge, A., Truchetto, J., Mundwiller, E., Jezequel, N., Zelenika, D., Mhiri, C., Brice, A., Stevanin, G. A new locus (SPG46) maps to 9p21.2-q21.12 in a Tunisian family with a complicated autosomal recessive hereditary spastic paraplegia with mental impairment and thin corpus callosum. Neurogenetics 11: 441-448, 2010. 3. Hammer, M. B., Eleuch-Fayache, G., Schottlaender, L. V., Nehdi, H., Gibbs, J. R., Arepalli, S. K., Chong, S. B., Hernandez, D. G., Sailer, A., Liu, G., Mistry, P. K., Cai, H., Shrader, G., Sassi, C., Bouhlal, Y., Houlden, H., Hentati, F., Amouri, R., Singleton, A. B. Mutations in GBA2 cause autosomal-recessive cerebellar ataxia with spasticity. Am. J. Hum. Genet. 92: 245-251, 2013.

NCBI AND UNIPROT INFORMATION

NCBI GeneID	57704
UniProt Accession #	Q9HCG7
Molecular Weight	Observed Molecular Weight: 105kDa
UniProt Protein Name	Non-lysosomal glucosylceramidase
UniProt Gene Name	GBA2
UniProt Synonym Gene Names	KIAA1605
UniProt Entry Name	GBA2_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/gba2-antibody-flow-cytometry-western-blot-elisa/127496>