

Rabbit POMGNT1 Polyclonal Antibody | anti-POMGNT1 antibody

Anti-POMGNT1 Antibody Picoband

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127182	Rabbit	Human, Mouse, Rat	Western Blot, Immunohistochemistry, Flow Cytometry, Functional Assay, ELISA

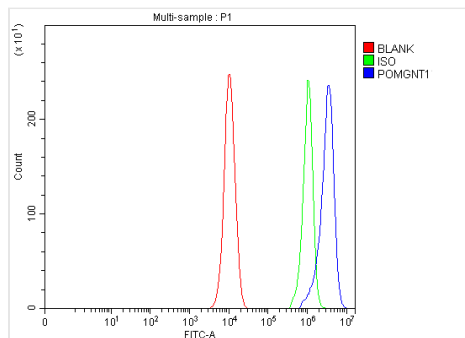
PRODUCT SYNONYMS

POMGNT1; Polyclonal Antibody; Anti-POMGNT1 Antibody Picoband; anti-POMGNT1 antibody

PRODUCT SPECIFICATIONS

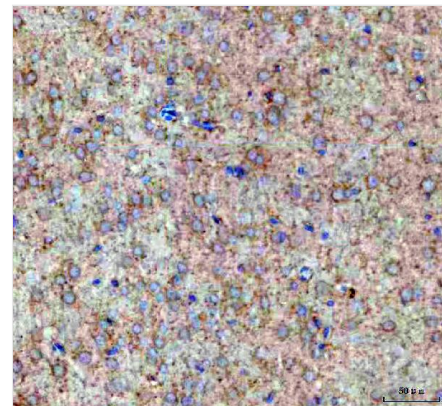
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Applicable Applications for anti-POMGNT1 antibody	WB (Western Blot), IHC (Immunohistochemistry), FCM/FACS (Flow Cytometry), ELISA
Immunogen	E coli-derived human POMGNT1 recombinant protein (Position: R96-E394). Human POMGNT1 shares 99.7% amino acid (aa) sequence identity with both mouse and rat POMGNT1.
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



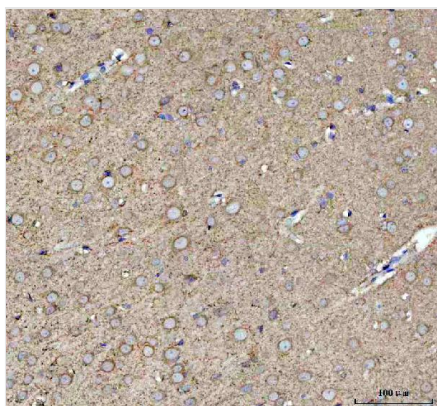
FCM/FACS (Flow Cytometry)

Figure 4. Flow Cytometry analysis of PC-3 cells using anti-POMGNT1 antibody (AAA127182). Overlay histogram showing PC-3 cells stained with AAA127182 (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-POMGNT1 Antibody (AAA127182, 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.



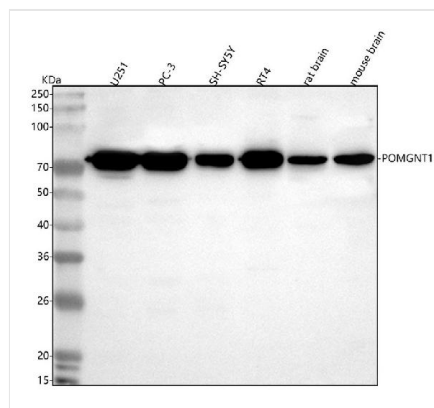
IHC (Immunohistochemistry)

Figure 3. IHC analysis of POMGNT1 using anti-POMGNT1 antibody (AAA127182). POMGNT1 was detected in a paraffin-embedded section of mouse brain 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-POMGNT1 Antibody (AAA127182) 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.



IHC (Immunohistochemistry)

Figure 2. IHC analysis of POMGNT1 using anti-POMGNT1 antibody (AAA127182). POMGNT1 was detected in a paraffin-embedded section of rat brain 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-POMGNT1 Antibody (AAA127182) 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.



WB (Western Blot)

Figure 1. Western blot analysis of POMGNT1 using anti-POMGNT1 antibody (AAA127182). 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 PC-3 whole cell lysates, Lane 3: human SH-SY5Y whole cell lysates, Lane 4: human RT4 whole cell lysates, Lane 5: rat brain tissue lysates, Lane 6: 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-POMGNT1 antigen affinity purified polyclonal antibody (#AAA127182) 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 POMGNT1 at approximately 75 kDa. The expected band size for POMGNT1 is at 75 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-POMGNT1 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-POMGNT1 antibody	Primary Antibodies
References	1. Biancheri, R., Bertini, E., Falace, A., Pedemonte, M., Rossi, A., D'Amico, A., Scapolan, S., Bergamino, L., Petrini, S., Cassandrini, D., Broda, P., Manfredi, M., Zara, F., Santorelli, F. M., Minetti, C., Bruno, C. POMGnT1 mutations in congenital muscular dystrophy: genotype-phenotype correlation and expanded clinical spectrum. Arch. Neurol. 63: 1491-1495, 2006. 2. Bouchet, C., Gonzales, M., Vuillaumier-Barrot, S., Devisme, L., Lebizet, C., Alanio, E., Bazin, A., Bessieres-Grattagliano, B., Bigi, N., Blanchet, P., Bonneau, D., Bonnieres, M., and 22 others. Molecular heterogeneity in fetal forms of type II lissencephaly. Hum. Mutat. 28: 1020-1027, 2007.3. Clement, E. M., Godfrey, C., Tan, J., Brockington, M., Torelli, S., Feng, L., Brown, S. C., Jimenez-Mallebrera, C., Sewry, C. A., Longman, C., Mein, R., Abbs, S., Vajsar, J., Schachter, H., Muntoni, F. Mild POMGnT1 mutations underlie a novel limb-girdle muscular dystrophy variant. Arch. Neurol. 65: 137-141, 2008.

NCBI AND UNIPROT INFORMATION

NCBI GI #	344313163
NCBI GeneID	55624
NCBI Accession #	NP_001230695
NCBI GenBank Nucleotide #	NM_017739
UniProt Accession #	Q8WZA1 ; Q5VST2 ; Q5VST3 ; Q9BV55 ; Q9H9L8 ; Q9NXF9 ; Q9NYF7 ; D3DQ16
Molecular Weight	84,700 Da
NCBI Official Full Name	protein O-linked-mannose beta-1,2-N-acetylglucosaminyltransferase 1 isoform 2

NCBI Official Synonym Full Names	protein O-linked mannose N-acetylglucosaminyltransferase 1 (beta 1,2-)
NCBI Official Symbol	POMGNT1
NCBI Official Synonym Symbols	MEB; GNTI.2; LGMD2O; GnT I.2; MGAT1.2; gnT-I.2
NCBI Protein Information	protein O-linked-mannose beta-1,2-N-acetylglucosaminyltransferase 1; UDP-GlcNAc:alpha-D-mannoside beta-1,2-N-acetylglucosaminyltransferase I.2
UniProt Protein Name	Protein O-linked-mannose beta-1,2-N-acetylglucosaminyltransferase 1
UniProt Gene Name	POMGNT1
UniProt Synonym Gene Names	MGAT1.2; POMGnT1; GnT I.2
UniProt Entry Name	PMGT1_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/pomgnt1-antibody-western-blot-immunohistochemistry-flow-cytometry-elisa/127182>