

Rabbit anti-Human, Rat POMT1 Polyclonal Antibody | anti-POMT1 antibody

Anti-POMT1 Antibody Picoband

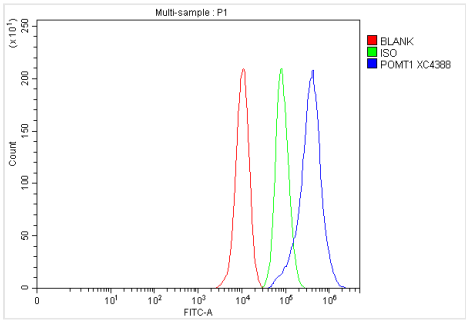
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA128241	Rabbit	Human, Rat	ELISA, Flow Cytometry, Functional Assay, Western Blot

PRODUCT SYNONYMS

POMT1; Polyclonal Antibody; Anti-POMT1 Antibody Picoband; Protein O-mannosyl-transferase 1; protein O-mannosyltransferase 1; EC 2.4.1.109; Dolichyl-phosphate-mannose--protein mannosyltransferase 1; anti-POMT1 antibody

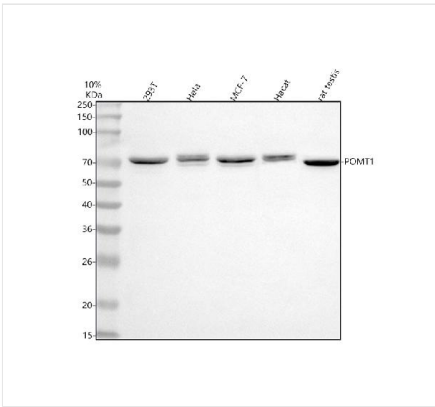
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
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-POMT1 antibody	ELISA, FCM/FACS (Flow Cytometry), WB (Western Blot)
Immunogen	E coli-derived human POMT1 recombinant protein (Position: H224-H747). Human POMT1 shares 81.1% and 80.9% amino acid (aa) sequence identity with mouse and rat POMT1, respectively.
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Cross Reactivity	No cross-reactivity with other proteins
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 MCF-7 cells using anti-POMT1 antibody (AAA128241).Overlay histogram showing MCF-7 cells stained with AAA128241 (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-POMT1 Antibody (AAA128241, 1ug/1x106 cells) for 30 min at 20 degree C. DyLight®488 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 POMT1 using anti-POMT1 antibody (AAA128241).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 293T whole cell lysates,Lane 2: human Hela whole cell lysates,Lane 3: human MCF-7 whole cell lysates,Lane 4: human Hecate whole cell lysates,Lane 5: rat 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-POMT1 antigen affinity purified polyclonal antibody (AAA128241) 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 POMT1 at approximately 75 kDa. The expected band size for POMT1 is at 85 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-POMT1 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-POMT1 antibody	Primary Antibodies
References	1. Balci, B., Uyanik, G., Dincer, P., Gross, C., Willer, T., Talim, B., Haliloglu, G., Kale, G., Hehr, U., Winkler, J., Topaloglu, H. An autosomal recessive limb girdle muscular dystrophy (LGMD2) with mild mental retardation is allelic to Walker-Warburg syndrome (WWS) caused by a mutation in the POMT1 gene. Neuromusc. Disord. 15: 271-275, 2005.2. Bello, L., Melacini, P., Pezzani, R., D'Amico, A., Piva, L., Leonardi, E., Torella, A., Soraru, G., Palmieri, A., Smaniotto, G., Gavassini, B. F., Vianello, A., Nigro, V., Bertini, E., Angelini, C., Tosatto, S. C. E., Pegoraro, E. Cardiomyopathy in patients with POMT1-related congenital and limb-girdle muscular dystrophy. Europ. J. Hum. Genet. 20: 1234-1239, 2012.3. Beltran-Valero de Bernabe, D., Currier, S., Steinbrecher, A., Celli, J., van Beusekom, E., van der Zwaag, B., Kayserili, H., Merlini, L., Chitayat, D., Dobyns, W. B., Cormand, B., Lehesjoki, A.-E., Cruces, J., Voit, T., Walsh, C. A., van Bokhoven, H., Brunner, H. G. Mutations in the O-mannosyltransferase gene POMT1 give rise to the severe neuronal migration disorder Walker-Warburg syndrome. Am. J. Hum. Genet. 71: 1033-1043, 2002.

NCBI AND UNIPROT INFORMATION

NCBI GI #	116517317
NCBI GeneID	10585
NCBI Accession #	NP_001070833
NCBI GenBank Nucleotide #	NM_001077365
UniProt Accession #	Q9Y6A1; Q5JT01; Q5JT06; Q5JT08; Q8NC91; Q8TCA9; Q9NX32; Q9NX82; Q9UNT2; B3KQG0; B4DIF0
Molecular Weight	69,531 Da

NCBI Official Full Name	protein O-mannosyl-transferase 1 isoform b
NCBI Official Synonym Full Names	protein-O-mannosyltransferase 1
NCBI Official Symbol	POMT1
NCBI Official Synonym Symbols	RT; LGMD2K; MDDGA1; MDDGB1; MDDGC1
NCBI Protein Information	protein O-mannosyl-transferase 1; dolichyl-phosphate-mannose--protein mannosyltransferase 1
UniProt Protein Name	Protein O-mannosyl-transferase 1
UniProt Gene Name	POMT1
UniProt Entry Name	POMT1_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/pomt1-antibody-flow-cytometry-western-blot-elisa/128241>