

Product datasheet for **TA335942**

POMT1 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	WB
Reactivity:	Human
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	The immunogen for Anti-POMT1 Antibody: synthetic peptide directed towards the middle region of human POMT1. Synthetic peptide located within the following region: LTFQILLLPVVLQHISDHLCRSQLQRSIFSALVVAWYSSACHVSNTLRPL
Formulation:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose. <i>Note that this product is shipped as lyophilized powder to China customers.</i>
Purification:	Affinity Purified
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	82 kDa
Gene Name:	protein O-mannosyltransferase 1
Database Link:	NP_001070833 Entrez Gene 10585 Human Q9Y6A1



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Background:

POMT1 is an O-mannosyltransferase that requires interaction with the product of the POMT2 gene for enzymatic function. The encoded protein is found in the membrane of the endoplasmic reticulum. Defects in this gene are a cause of Walker-Warburg syndrome (WWS) and limb-girdle muscular dystrophy type 2K (LGMD2K). O-mannosylation is an important protein modification in eukaryotes that is initiated by an evolutionarily conserved family of protein O-mannosyltransferases. POMT1 shares sequence similarity with protein O-mannosyltransferases of *S. cerevisiae*. In yeast, these enzymes are located in the endoplasmic reticulum (ER) and are required for cell integrity and cell wall rigidity. POMT1 also shows similarity to the *Drosophila* 'rotated abdomen' (rt) gene, which when mutated causes defects in myogenesis and muscle structure. [supplied by OMIM]. Publication Note: This RefSeq record includes a subset of the publications that are available for this gene. Please see the Entrez Gene record to access additional publications. PRIMARYREFSEQ_SPAN PRIMARY_IDENTIFIER PRIMARY_SPAN COMP 1-42 DB154785.1 1-42 43-2420 AK074874.1 1-2378 2421-2617 BF984005.1 438-634 2618-3080 AL358781.19 127610-128072

Synonyms:

LGMD2K; MDDGA1; MDDGB1; MDDGC1; RT

Note:

Immunogen Sequence Homology: Human: 100%; Horse: 93%; Dog: 86%; Pig: 86%; Rat: 86%; Mouse: 86%; Bovine: 86%; Rabbit: 77%

Protein Families:

Transmembrane

Protein Pathways:

O-Mannosyl glycan biosynthesis

Product images:

WB Suggested Anti-POMT1 Antibody Titration:
0.2-1 ug/ml; ELISA Titer: 1: 62500; Positive
Control: HepG2 cell lysate