

Datasheet for ABIN2747315
anti-POMT2 antibody (AA 500-560)



[Go to Product page](#)

Overview

Quantity:	100 µg
Target:	POMT2
Binding Specificity:	AA 500-560
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This POMT2 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC), Immunoprecipitation (IP)

Product Details

Immunogen:	Synthetic peptide taken within amino acid region 500-560 on human POMT2 protein.
Isotype:	IgG
Cross-Reactivity:	Mouse (Murine)
Cross-Reactivity (Details):	The antibody does not cross react to any other cellular protein.
Characteristics:	<p>POMT2- selective antibodies were generated against a peptide taken from the N-terminal region of the human protein. The POMT2-selective antibodies are affinity purified on an immobilized antigen based affinity matrix, the isolated antibodies were then stabilized in antibody stabilization buffer for long-term storage. The anti- POMT2-selective antibodies are fully characterized for applications in western blotting and ELISA at the recommended dilutions. antibodies-online.com provides POMT2 Western blot positive control samples in SDS-PAGE sample buffer.</p>

Product Details

Purification: Affinity Purified

Target Details

Target: POMT2

Alternative Name: POMT2 ([POMT2 Products](#))

Background: Protein O mannosylation is initiated in the endoplasmic reticulum by protein O-mannosyl transferases (POMT proteins). They play an important role in the secretion, localization, and function of many proteins, as well as in cell wall integrity and morphogenesis in fungi. On the molecular level, the O-mannosylation pathway and the function of O-mannosyl glycans are characterized best in the eukaryotic model yeast *Saccharomyces cerevisiae*. O-mannosylation defects interfere with cell wall integrity and ER homeostasis in yeast, resulting in severe neuromuscular diseases in humans. Transfer of this knowledge from yeast to mammals could lead to the development of novel antifungal drugs by diagnostic and therapeutic approaches in the frame of neuromuscular diseases. The POMT family is classified into POMT1, POMT2 and POMT4 subfamilies. Protein-O-Mannosyl Transferase 2 (POMT2) encodes an integral membrane protein which localizes to the endoplasmic reticulum. It shares significant sequence similarity with the family of protein O-mannosyl transferases of *S. cerevisiae*. This 750 amino acid protein has a seven transmembrane helical structure with a central hydrophilic domain surrounded by five N-terminal and two C-terminal transmembrane regions. Like other known members of its family, POMT2 lacks a characteristic ER-targeting or -retention signal and contains five N-glycosylation sites. POMT2 shares 36 % sequence identity with human POMT1 and RNA dot blot analysis reveals highest expression of mouse POMT2 in testis. POMT2 mutations have been identified in congenital muscular dystrophy (CMD) cases with a wide range of clinical involvement, ranging from the severe muscle-eye-brain disease and Walker-Warburg syndrome to limb girdle muscular dystrophy without structural brain or ocular involvement. The gene for POMT2 is present on chromosome 14q24.3

UniProt: [Q9UKY4](#)

Application Details

Application Notes: Antibodies were tested in ELISA and western blotting applications at 1:500 dilution using ABIN1686546 samples. Antibody dilutions for these antibodies are for reference only, investigators are expected to determine the optimal conditions. Application of this antibody in other protocols has not yet tested.

WB: > 1:500

Application Details

IMM & IP pull-down assays: n.d.

IHC: n.d.

Investigators using this antibody in protocols other than listed above can request a complimentary sample of this antibody. n.d. not necessarily means the antibody is not suitable for that application, it simply means we have not yet characterized the antibody for that application.

The antibody labels a strong band of POMT2 at 90 kDa in ABIN1686546 samples and in other cancer cell lines.

Restrictions: For Research Use only

Handling

Format:	Liquid
Concentration:	0.55-0.75 µg/µL
Storage:	-20 °C
Storage Comment:	Storage of very dilute antibody solutions is not recommended.