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PREPL Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP5565b

Specification

PREPL Antibody (C-term) - Product Information

Application	**WB, IHC-P,E**
Primary Accession	Q4J6C6
Other Accession	Q5HZA6, Q8C167, A5LFV8, NP_006027.2
Reactivity	**Human, Hamster, Mouse**
Predicted	**Monkey, Rat**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**83927**
Antigen Region	**624-652**

PREPL Antibody (C-term) - Additional Information

Gene ID 9581

Other Names
Prolyl endopeptidase-like, 3421-, Prolylendopeptidase-like, PREPL, KIAA0436

Target/Specificity
This PREPL antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 624-652 amino acids from the C-terminal region of human PREPL.

Dilution
WB~~1:1000
IHC-P~~1:50~100

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
PREPL Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

PREPL Antibody (C-term) - Protein Information

Name PREPL

Synonyms KIAA0436

Function Serine peptidase whose precise substrate specificity remains unclear (PubMed:16143824, PubMed:16385448, PubMed:28726805). Does not cleave peptides after a arginine or lysine residue (PubMed:16143824). Regulates trans-Golgi network morphology and sorting by regulating the membrane binding of the AP-1 complex (PubMed:23321636). May play a role in the regulation of synaptic vesicle exocytosis (PubMed:24610330).

Cellular Location
Cytoplasm, cytosol. Golgi apparatus, trans-Golgi network {ECO:0000250|UniProtKB:Q8C167}. Cytoplasm, cytoskeleton {ECO:0000250|UniProtKB:Q8C167}. Golgi apparatus {ECO:0000250|UniProtKB:Q8C167}. Nucleus Note=Co-localizes with AP-1 in the trans-Golgi network (By similarity) Co-localizes with MAP2 and ACTB on the cytoskeleton (By similarity) Co-localizes with STX6 and GOSR2 at the Golgi apparatus (By similarity). {ECO:0000250|UniProtKB:Q8C167}

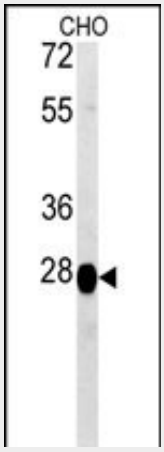
Tissue Location
Expressed in pyramidal neurons of the temporal cortex and neocortex (at protein level) (PubMed:23485813). Widely expressed (PubMed:15913950, PubMed:16385448). Expressed at higher level in brain, skeletal muscle, heart and kidney (PubMed:15913950, PubMed:16385448). Expressed at the endplates in the neuromuscular junction (PubMed:24610330).

PREPL Antibody (C-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

PREPL Antibody (C-term) - Images



PREPL Antibody (C-term) (Cat. #AP5565b) western blot analysis in CHO cell line lysates (15ug/lane).This demonstrates the PREPL antibody detected the PREPL protein (arrow).

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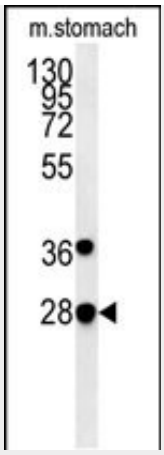
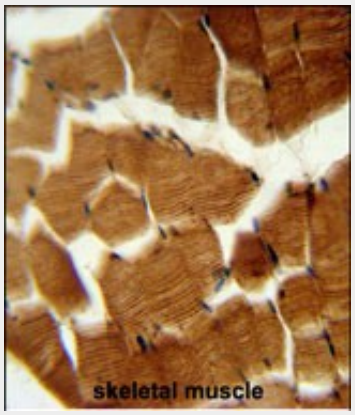


PREPL Antibody (C-term) (Cat. #AP5565b) western blot analysis in mouse stomach tissue lysates (15ug/lane).This demonstrates the PREPL antibody detected the PREPL protein (arrow).



PREPL Antibody (C-term) (Cat. #AP5565b) immunohistochemistry analysis in formalin fixed and paraffin embedded human skeletal muscle followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the PREPL Antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.

PREPL Antibody (C-term) - Background

The protein encoded by this gene belongs to the prolyl oligopeptidase subfamily of serine peptidases. Mutations in this gene have been associated with hypotonia-cystinuria syndrome, also known as the 2p21 deletion syndrome.

PREPL Antibody (C-term) - References

Parvari, R., et al. Genomics 86(2):195-211(2005)
Kim, D.K., et al. Biochim. Biophys. Acta 1565(1):112-121(2002)
Parvari, R., et al. Am. J. Hum. Genet. 69(4):869-875(2001)
Robertson, N.G., et al. Genomics 23(1):42-50(1994)