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PREPL Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP5565b

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, Bovine, Canine, Rabbit, Chicken
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB26878
Calculated MW	83927
Antigen Region	624-652

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~~1:100~500 E~~Use at an assay dependent concentration.
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.

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).

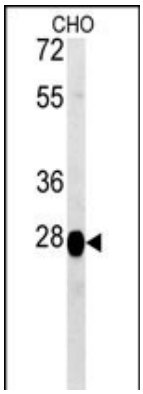
Background

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.

References

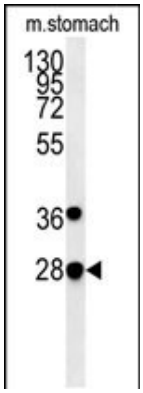
Parvari, R., et al. Genomics 86(2):195-211(2005)
Kim, D.K., et al. Biochim. Biophys. Acta 1565(1):112-121(2002)
Parvari, R., et al. Am. J. Hum. Genet. 69(4):869-875(2001)
Robertson, N.G., et al. Genomics 23(1):42-50(1994)

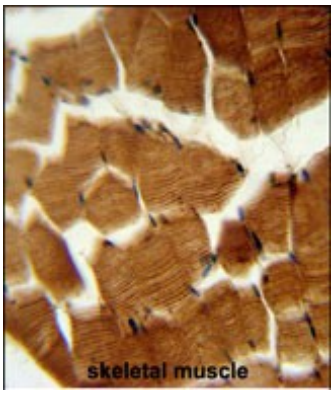
Images



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).

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.

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