

KD-Validated Anti-Prolyl Endopeptidase Like Rabbit Monoclonal Antibody

Rabbit monoclonal antibody

Catalog # AGI1642

Product Information

Application	WB, FC
Primary Accession	Q4J6C6
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Isotype	Rabbit IgG
Clone Names	24GB995
Calculated MW	83927
Gene Name	PREPL
Aliases	Prolyl Endopeptidase Like; Prolyl Endopeptidase-Like; KIAA0436; Putative Prolyl Oligopeptidase; Prolyl endopeptidase-Like; EC 3.4.21.83; EC 3.4.21.-; EC 3.4.21; CMS22
Immunogen	A synthesized peptide derived from human PREPL

Additional Information

Gene ID	9581
Other Names	Prolyl endopeptidase-like, 3.4.21.-, Prolyl endopeptidase-like, PREPL, KIAA0436

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).

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