

### **KD-Validated Anti-Prolyl Endopeptidase Like Rabbit Monoclonal Antibody**

Rabbit monoclonal antibody Catalog # AGI1641

#### **Specification**

## KD-Validated Anti-Prolyl Endopeptidase Like Rabbit Monoclonal Antibody - Product Information

Application WB, FC, ICC Primary Accession 0416C6

Primary Accession
Reactivity

O4]6C6
Rat, Human, Mouse

Clonality Monoclonal Isotype Rabbit IgG

Calculated MW Predicted, 84 kDa , observed , 70 kDa KDa

Gene Name PREPL

Aliases Prolyl Endopeptidase Like; Prolyl

**Endopeptidase-Like; KIAA0436; Putative** 

Prolyl Oligopeptidase;

Prolylendopeptidase-Like; EC 3.4.21.83; EC

3.4.21.-; EC 3.4.21; CMS22

Immunogen A synthesized peptide derived from human

**PREPL** 

## KD-Validated Anti-Prolyl Endopeptidase Like Rabbit Monoclonal Antibody - Additional Information

Gene ID 9581

**Other Names** 

Prolyl endopeptidase-like, 3.4.21.-, Prolylendopeptidase-like, PREPL, KIAA0436

# KD-Validated Anti-Prolyl Endopeptidase Like Rabbit Monoclonal Antibody - Protein Information

Name PREPL

Synonyms KIAA0436

#### **Function**

Serine peptidase whose precise substrate specificity remains unclear (PubMed:<a

href="http://www.uniprot.org/citations/16143824" target="\_blank">16143824</a>, PubMed:<a href="http://www.uniprot.org/citations/16385448" target="\_blank">16385448</a>, PubMed:<a href="http://www.uniprot.org/citations/28726805" target="\_blank">28726805</a>). Does not cleave peptides after a arginine or lysine residue (PubMed:<a

href="http://www.uniprot.org/citations/16143824" target="\_blank">16143824</a>). Regulates trans-Golgi network morphology and sorting by regulating the membrane binding of the AP-1 complex (PubMed:<a href="http://www.uniprot.org/citations/23321636"

target="\_blank">23321636</a>). May play a role in the regulation of synaptic vesicle exocytosis (PubMed:<a href="http://www.uniprot.org/citations/24610330" target=" blank">24610330</a>).





#### **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**

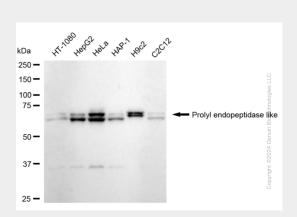
Expressed in pyramidal neurons of the temporal cortex and neocortex (at protein level) (PubMed:23485813). Widely expressed (PubMed:15913950, PubMed:16385448). Expressed at higher level in brain, skeletal muscle, heart and kidney (PubMed:15913950, PubMed:16385448). Expressed at the endplates in the neuromuscular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

### KD-Validated Anti-Prolyl Endopeptidase Like Rabbit Monoclonal Antibody - Protocols

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

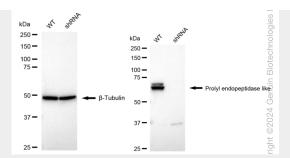
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

### KD-Validated Anti-Prolyl Endopeptidase Like Rabbit Monoclonal Antibody - Images

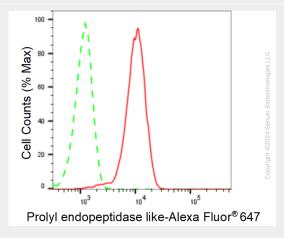


Western blotting analysis using anti-Prolyl endopeptidase like antibody (Cat#AGI1641). Total cell lysates (30  $\mu$ g) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-Prolyl endopeptidase like antibody (Cat#AGI1641, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.

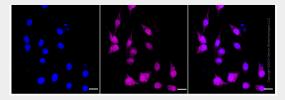




Western blotting analysis using anti-Prolyl endopeptidase like antibody (Cat#AGI1641). Prolyl endopeptidase like expression in wild type (WT) and Prolyl endopeptidase like shRNA knockdown (KD) HeLa cells with 20  $\mu$ g of total cell lysates.  $\beta$ -Tubulin serves as a loading control. The blot was incubated with anti-Prolyl endopeptidase like antibody (Cat#AGI1641, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Flow cytometric analysis of Prolyl endopeptidase like expression in HeLa cells using Prolyl endopeptidase like antibody (Cat#AGI1641, 1:2,000). Green, isotype control; red, Prolyl endopeptidase like.



Immunocytochemical staining of Hela cells with anti-Prolyl endopeptidase like antibody (Cat#AGI1641, 1:1,000). Nuclei were stained blue with DAPI; Prolyl endopeptidase like was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar: 20  $\mu$ m.