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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	Q4J6C6
Reactivity	**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: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).

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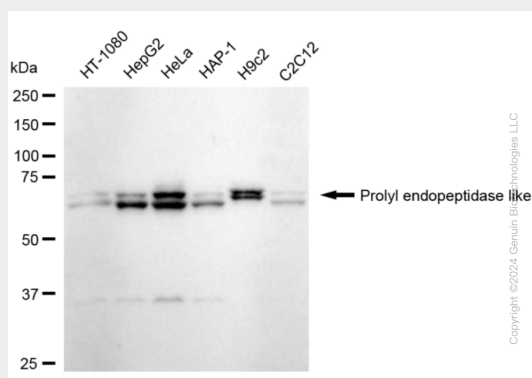
Western blotting analysis using anti-Prolyl endopeptidase like antibody (Cat#AGI1641). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-Prolyl endopeptidase like antibody (Cat#AGI1641, 1:5,000) and HRP-conjugated goat anti-rabbit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