

Product Name: KD-Validated Prolyl Endopeptidase Like Recombinant Rabbit Monoclonal Antibody

Catalog #: KVAb00958

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC,IHC-P
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000; IHC-P 1:100-1:200
Molecular Weight	Calculated MW: 83.9kDa

Antigen Information

Gene Name	PREPL
Alternative Names	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
Gene ID	9581.0
SwissProt ID	Q4J6C6
Immunogen	A synthesized peptide derived from human PREPL

Background

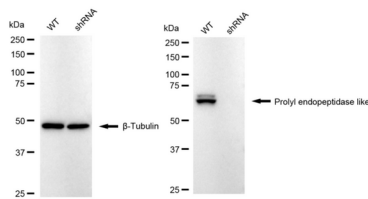
The protein encoded by this gene belongs to the prolyl oligopeptidase subfamily of serine peptidases. Mutations in this gene have been associated with hypotonia-cystinuria syndrome, also known as the 2p21 deletion syndrome. Several alternatively

spliced transcript variants encoding either the same or different isoforms have been described for this gene.[provided by RefSeq, Jan 2010]

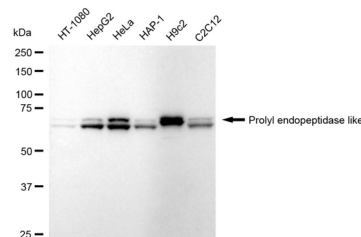
Research Area

Cell Biology

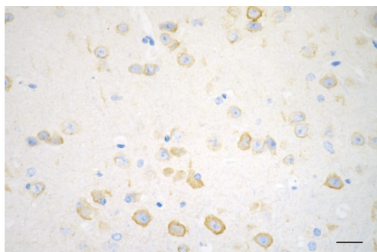
Image Data



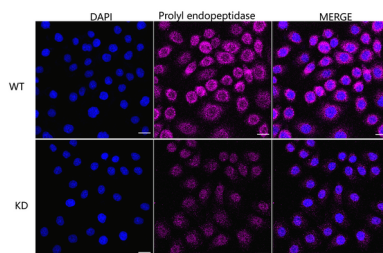
Western blotting analysis using Prolyl endopeptidase like antibody (KVA00958). Prolyl endopeptidase like expression in wild type (WT) and Prolyl endopeptidase like shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. β-Tubulin serves as a loading control. The blot was incubated with Prolyl endopeptidase like antibody (KVA00958, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



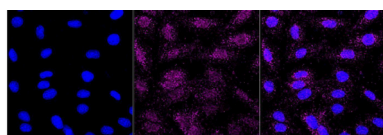
Western blotting analysis using Prolyl endopeptidase like antibody (KVA00958). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with Prolyl endopeptidase like antibody (KVA00958, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



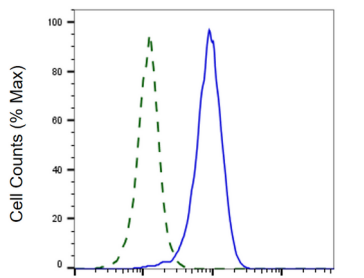
Immunohistochemistry was performed on paraffin-embedded mouse brain using prolyl endopeptidase like antibody (KVA00958, 1:200). Antigen retrieval was done in sodium citrate buffer (pH 6.0). DAB was used for detection, with hematoxylin counterstaining. Images were acquired using a Nikon Ci-L Plus microscope (40× objective). Scale bar: 25 µm.



Immunocytochemical staining of HeLa cells using Prolyl endopeptidase like antibody (KVA00958, 1:1,000), Top panel: wild-type (WT); Bottom panel: Prolyl endopeptidase like shRNA knockdown (KD). Nuclei were stained blue with DAPI; Prolyl endopeptidase like was stained magenta with Alexa Fluor® 647. Scale bar, 20 µm. Permeabilization: Triton.

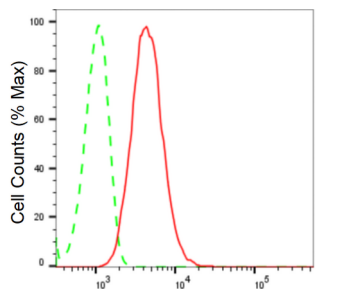


Immunocytochemical staining of H9C2 cells with Prolyl endopeptidase like antibody (KVA00958, 1:1,000). Nuclei were stained blue with DAPI; Prolyl endopeptidase like was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar, 20 µm.



Prolyl endopeptidase like-Alexa Fluor® 647

Validation of Prolyl endopeptidase like knockdown using flow cytometry. Wild-type(WT, Blue) and knockdown(KD, Green) HeLa cells were stained with Prolyl endopeptidase like antibody (KVA00958, 1:2,000) and analyzed using BD flow cytometer.



Prolyl endopeptidase like-Alexa Fluor® 647

Flow cytometric analysis of Prolyl endopeptidase like expression in H9c2 cells using Prolyl endopeptidase like antibody (KVA00958, 1:2,000). Green, isotype control; red, Prolyl endopeptidase like.