

KD-Validated Anti-Peptidase D Rabbit Monoclonal Antibody
Rabbit monoclonal antibody
Catalog # AGI1264**Specification****KD-Validated Anti-Peptidase D Rabbit Monoclonal Antibody - Product Information**

Application	WB, FC, ICC
Primary Accession	P12955
Reactivity	Human
Clonality	Monoclonal
Isotype	Rabbit IgG
Calculated MW	Predicted, 55 kDa , observed, 55 kDa KDa
Gene Name	PEPD
Aliases	PEPD; Peptidase D; Xaa-Pro Dipeptidase; Imidodipeptidase; Proline Dipeptidase; X-Pro Dipeptidase; Prolidase; Testicular Tissue Protein Li 138; Aminoacyl-L-Proline Hydrolase; EC 3.4.13.9; PROLIDASE; PRD
Immunogen	A synthesized peptide derived from human PRD

KD-Validated Anti-Peptidase D Rabbit Monoclonal Antibody - Additional Information

Gene ID	5184
Other Names	
Xaa-Pro dipeptidase, X-Pro dipeptidase, 3.4.13.9, Imidodipeptidase, Peptidase D, Proline dipeptidase, Prolidase, PEPD {ECO:0000303 PubMed:8198124, ECO:0000312 HGNC:HGNC:8840}	

KD-Validated Anti-Peptidase D Rabbit Monoclonal Antibody - Protein Information

Name PEPD {ECO:0000303|PubMed:8198124, ECO:0000312|HGNC:HGNC:8840}

Function

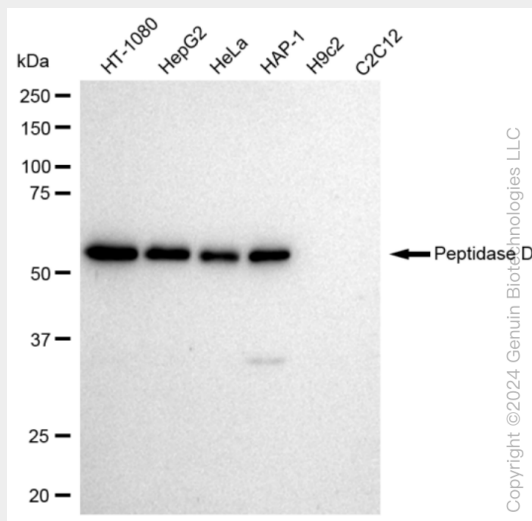
Dipeptidase that catalyzes the hydrolysis of dipeptides with a prolyl (Xaa-Pro) or hydroxyprolyl residue in the C-terminal position (PubMed:17081196, PubMed:35165443). The preferred dipeptide substrate is Gly-Pro, but other Xaa-Pro dipeptides, such as Ala-Pro, Met-Pro, Phe-Pro, Val-Pro and Leu-Pro, can be cleaved (PubMed:17081196). Plays an important role in collagen metabolism because the high level of iminoacids in collagen (PubMed:2925654).

KD-Validated Anti-Peptidase D Rabbit Monoclonal Antibody - Protocols

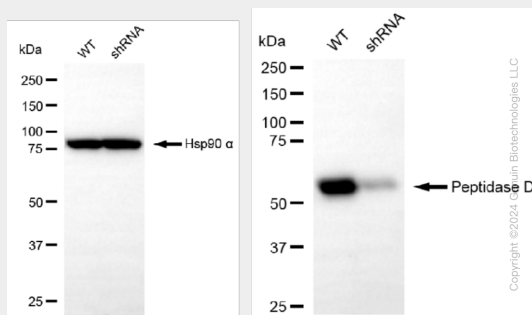
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

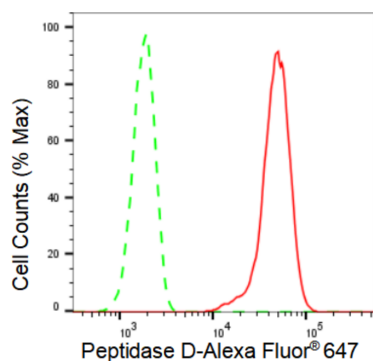
KD-Validated Anti-Peptidase D Rabbit Monoclonal Antibody - Images



Western blotting analysis using anti-Peptidase D antibody (Cat#AGI1264). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-Peptidase D antibody (Cat#AGI1264, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.

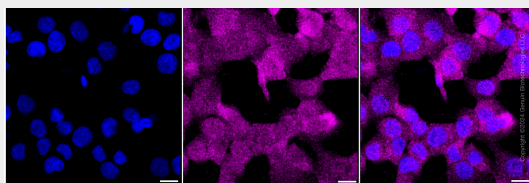


Western blotting analysis using anti-Peptidase D antibody (Cat#AGI1264). Peptidase D expression in wild type (WT) and peptidase D shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with anti-Peptidase D antibody (Cat#AGI1264, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



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Flow cytometric analysis of Peptidase D expression in HT-1080 cells using Peptidase D antibody (Cat#AGI1264, 1:2,000). Green, isotype control; red, Peptidase D.



Immunocytochemical staining of HT-1080 cells with Peptidase D antibody (Cat#AGI1264, 1:1,000). Nuclei were stained blue with DAPI; Peptidase D 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.