

#### 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:<a href="http://www.uniprot.org/citations/17081196" target="\_blank">17081196</a>, PubMed:<a href="http://www.uniprot.org/citations/35165443" target="\_blank">35165443</a>). 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:<a href="http://www.uniprot.org/citations/17081196" target="\_blank">17081196</a>). Plays an important role in collagen metabolism because the high level of iminoacids in collagen (PubMed:<a href="http://www.uniprot.org/citations/2925654" target="\_blank">2925654</a>).

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

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



- <u>Western Blot</u>
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- <u>Cell Culture</u>

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



Western blotting analysis using anti-Peptidase D antibody (Cat#AGI1264). Total cell lysates (30  $\mu$ g) 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  $\mu$ g of total cell lysates. Hsp90  $\alpha$  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.





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.