

Rabbit PEPD Polyclonal Antibody | anti-PEPD antibody

PEPD Antibody

CATALOG # AAA327034	HOST Rabbit	REACTIVITY Human, Mouse, Rat	APPLICATIONS ELISA, Immunohistochemistry, Western Blot
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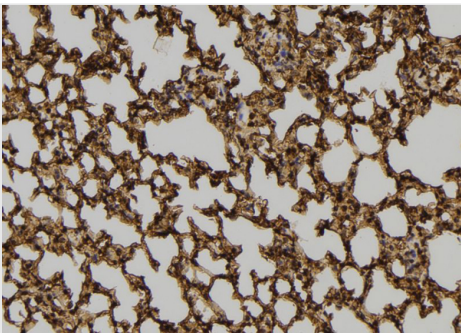
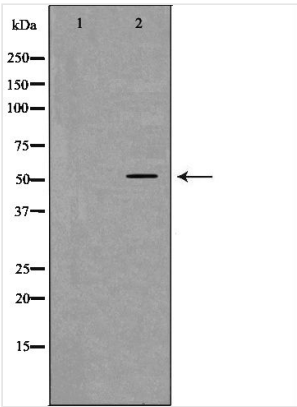
PRODUCT SYNONYMS

PEPD; Polyclonal Antibody; PEPD Antibody; Aminoacyl L proline hydrolase; Imidodipeptidase; MGC10905; MGC95081; Pep 4; Pep4; pepD; PEPD_HUMAN; Peptidase 4; Peptidase D; Prolidase; Proline dipeptidase; X pro dipeptidase; X-Pro dipeptidase; Xaa-Pro dipeptidase; anti-PEPD antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	PEPD antibody detects endogenous levels of total PEPD
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	493
Applicable Applications for anti-PEPD antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human PEPD
Predicted Cross Reactivity	Pig, Zebrafish, Bovine, Horse, Sheep, Rabbit, Dog, Chicken, Xenopus
Similarity	Pig (100%), Zebrafish (92%), Bovine (92%), Horse (100%), Sheep (92%), Rabbit (90%), Dog (100%), Chicken (92%), Xenopus (83%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IHC (Immunohistochemistry)
AAA327034 at 1/100 staining Mouse lung tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

WB (Western Blot)
Western blot analysis of HepG2 cell lysate, using PEPD Antibody. The lane on the left is treated with the antigen-specific peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-PEPD antibody

Description: This gene encodes a member of the peptidase family. The protein forms a homodimer that hydrolyzes dipeptides or tripeptides with C-terminal proline or hydroxyproline residues. The enzyme serves an important role in the recycling of proline, and may be rate limiting for the production of collagen. Mutations in this gene result in prolidase deficiency, which is characterized by the excretion of large amount of di- and tri-peptides containing proline. Multiple transcript variants encoding different isoforms have been found for this gene.

Function: Splits dipeptides with a prolyl or hydroxyprolyl residue in the C-terminal position. Plays an important role in collagen metabolism because the high level of iminoacids in collagen.

Subunit Structure: Homodimer.

Similarity: Belongs to the peptidase M24B family. Eukaryotic-type prolidase subfamily.

NCBI AND UNIPROT INFORMATION

NCBI GI #	149589008
NCBI GeneID	5184
NCBI Accession #	NP_000276.2
NCBI GenBank Nucleotide #	NM_000285.3
UniProt Accession #	P12955; Q8TBN9; Q9BT75; A8K3Z1; A8K416; A8K696; A8MX47; B4DDB7; B4DGJ1; E9PCE8
Molecular Weight	Observed: 54 kDa Predicted: 55 kDa
NCBI Official Full Name	xaa-Pro dipeptidase isoform 1
NCBI Official Synonym Full Names	peptidase D
NCBI Official Symbol	PEPD
NCBI Official Synonym Symbols	PROLIDASE
NCBI Protein Information	xaa-Pro dipeptidase
UniProt Protein Name	Xaa-Pro dipeptidase
UniProt Gene Name	PEPD
UniProt Synonym Gene Names	PRD; X-Pro dipeptidase; Prolidase

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

