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PEPD Antibody (C-Term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP22203b

Product Information

Application	WB, E
Primary Accession	P12955
Other Accession	Q11136, Q5RFB3, Q5I0D7
Reactivity	Human, Rat, Mouse
Predicted	Mouse, Rat, Bovine, Canine, Rabbit, Chicken
Host	Rabbit
Clonality	polyclonal
Isotype	Rabbit IgG
Clone Names	RB55146
Calculated MW	54548

Additional Information

Gene ID	5184
Other Names	Xaa-Pro dipeptidase, X-Pro dipeptidase, 3.4.13.9, Imidodipeptidase, Peptidase D, Proline dipeptidase, Prolidase, PEPD, PRD
Target/Specificity	This PEPD antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 364-398 amino acids from human PEPD.
Dilution	WB~~1:2000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	PEPD Antibody (C-Term) is for research use only and not for use in diagnostic or therapeutic procedures.

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).

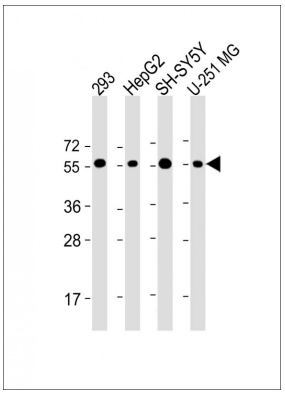
Background

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.

References

Endo F.,et al.J. Biol. Chem. 264:4476-4481(1989).
Kalnine N.,et al.Submitted (MAY-2003) to the EMBL/GenBank/DDBJ databases.
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Grimwood J.,et al.Nature 428:529-535(2004).
Harris R.A.,et al.Proteomics 2:212-223(2002).

Images



All lanes : Anti-PEPD Antibody (C-Term) at 1:2000 dilution Lane 1: 293 whole cell lysate Lane 2: HepG2 whole cell lysate Lane 3: SH-SY5Y whole cell lysate Lane 4: U-251 MG whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 55 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.