

For Research Use Only

PEPD Polyclonal antibody

Catalog Number: 12218-1-AP

Featured Product

2 Publications



Basic Information

Catalog Number: 12218-1-AP	GenBank Accession Number: BC015027	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 500 µg/ml by Nanodrop and 267 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 5184	Recommended Dilutions: WB 1:500-1:3000 IHC 1:100-1:800 IF 1:50-1:500
Source: Rabbit	Full Name: peptidase D	
Isotype: IgG	Calculated MW: 493 aa, 55 kDa	
Immunogen Catalog Number: AG2842	Observed MW: 55 kDa	

Applications

Tested Applications:

IF, IHC, WB, ELISA

Cited Applications:

IHC

Species Specificity:

human, mouse

Cited Species:

human

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : HEK-293 cells, MDA-MB-453s cells, mouse skin tissue, HeLa cells, HepG2 cells, SH-SY5Y cells

IHC : human lung cancer tissue,

IF : HepG2 cells,

Background Information

PEPD, also named as PRD, Prolidase, X-Pro dipeptidase, Imidodipeptidase, Peptidase D and Proline dipeptidase, belongs to the peptidase M24B family and Eukaryotic-type prolidase subfamily. PEPD splits dipeptides with a prolyl or hydroxyprolyl residue in the C-terminal position. It plays an important role in collagen metabolism because the high level of iminoacids in collagen. Defects in PEPD are a cause of prolidase deficiency (PD). PEPD is considered as the most promising candidate genes for altering AAA risk, based on gene function, association evidence, gene expression, and protein expression. (PMID:21247474)

Notable Publications

Author	Pubmed ID	Journal	Application
Aydemir Koçarslan	27387023	Arch Med Res	IHC
Lillvis John HJH	21247474	BMC Med Genet	IHC

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

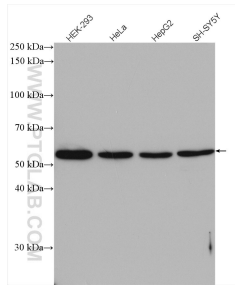
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

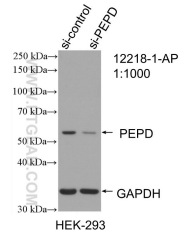
E: proteintech@ptglab.com
W: ptglab.com

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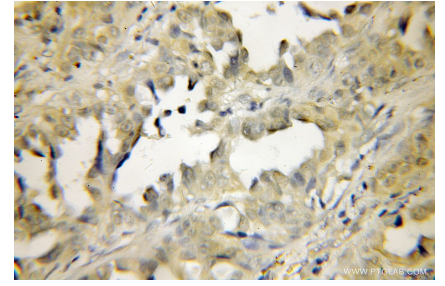
Selected Validation Data



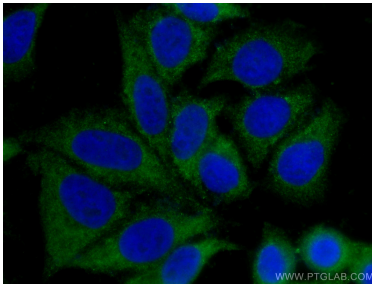
Various lysates were subjected to SDS PAGE followed by western blot with 12218-1-AP (PEPD antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



WB result of PEPD antibody (12218-1-AP; 1:1000; incubated at room temperature for 1.5 hours) with sh-Control and sh-PEPD transfected HEK-293 cells.



Immunohistochemical analysis of paraffin-embedded human lung cancer using 12218-1-AP (PEPD antibody) at dilution of 1:50 (under 10x lens).



Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using 12218-1-AP (PEPD antibody) at dilution of 1:100 and CoraLite488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).