PEPD Monoclonal antibody

Catalog Number: 67202-1-Ig   **1 Publications**

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Basic Information

Catalog Number: 67202-1-Ig	**GenBank Accession Number:** BC015027	**Purification Method:** Protein G purification
Size: 150ul , Concentration: 2100 ug/ml by Nanodrop and 1000 ug/ml by Bradford method using BSA as the standard;	**GeneID (NCBI):** 5184	**CloneNo.:** 1H2A1
Source: Mouse	**UNIPROT ID:** P12955	**Recommended Dilutions:** WB 1:1000-1:4000 IHC 1:250-1:1000
Isotype: IgG1	**Full Name:** peptidase D	
Immunogen Catalog Number: AG28713	**Calculated MW:** 493 aa, 55 kDa	
	Observed MW: 55 kDa	

Applications

Tested Applications:
WB, IHC, ELISA

Cited Applications:
WB

Species Specificity:
Human

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 : LNCaP cells, HEK-293 cells, human placenta tissue, NCCIT cells, HeLa cells, Jurkat cells

IHC : human breast cancer tissue,

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

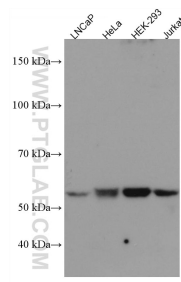| Author	Pubmed ID	Journal	Application
Jie Chen	34976977	Front Bioeng Biotechnol	WB

Storage

Storage:
Store at -20℃.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage
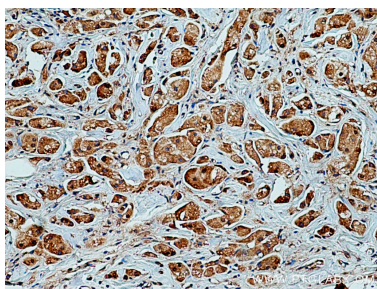
*** 20ul sizes contain 0.1% BSA**

Selected Validation Data

Various lysates were subjected to SDS PAGE followed by western blot with 67202-1-Ig (PEPD antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.

Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 67202-1-Ig (PEPD antibody) at dilution of 1:500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).
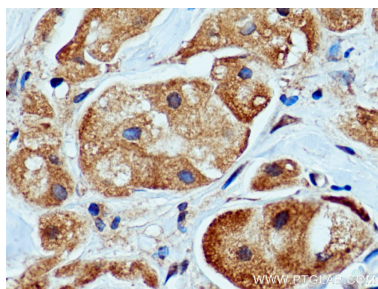
Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 67202-1-Ig (PEPD antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).