abcam

Product datasheet

Anti-PEPD antibody ab111851

3 图像

概述

产品名称	Anti-PEPD抗体
描述	**兔多克隆抗体**to PEPD
经测试应用	**适用于:** ICC/IF, WB, IHC-P
种属反应性	**与反应:** Human **预测可用于:** Mouse, Rat
免疫原	Recombinant fragment, corresponding to amino acids 22-290 of Human PEPD (BC028295).
阳性对照	Human fetal liver tissue, HeLa and HepG2 cell lysates. IF/ICC: HepG2 cell line.

性能

形式	Lyophilised:Reconstitute in 200ul Sterile Distilled Water.
存放说明	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid repeated freeze / thaw cycles.
存储溶液	pH: 7.20 Preservative: 0.02% Sodium azide Constituents: 99% PBS, 1% BSA
纯度	Immunogen affinity purified
纯化说明	ab111851 is purified by a peptide affinity column.
克隆	**多克隆**
同种型	IgG

应用

Our Abpromise guarantee covers the use of **ab111851** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

应用	Ab评论	说明
ICC/IF		Use a concentration of 5 µg/ml.
WB		1/500 - 1/1000. Predicted molecular weight: 55 kDa.

应用	Ab评论	说明
IHC-P		1/100 - 1/500.

靶标

功能

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.

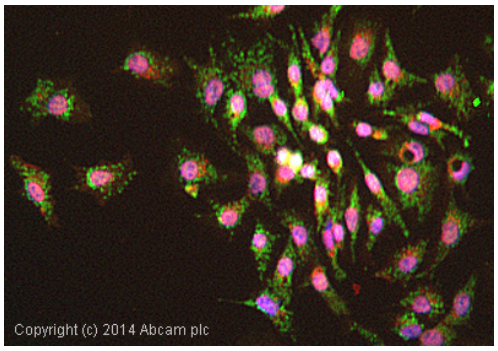
疾病相关

Defects in PEPD are a cause of prolidase deficiency (PD) [MIM:170100]. Prolidase deficiency is an autosomal recessive disorder associated with iminodipeptiduria. The clinical phenotype includes skin ulcers, mental retardation, recurrent infections, and a characteristic facies. These features, however are incompletely penetrant and highly variable in both age of onset and severity. There is a tight linkage between the polymorphisms of prolidase and the myotonic dystrophy trait.

序列相似性

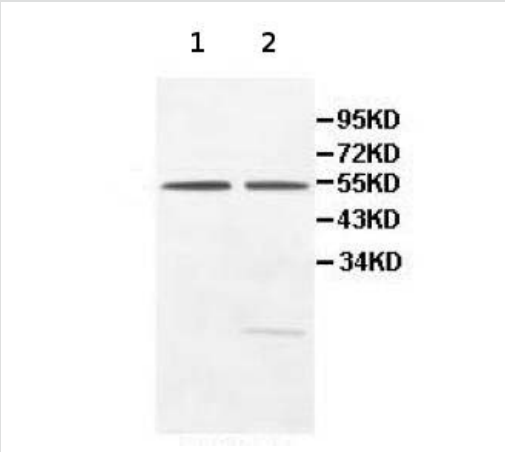
Belongs to the peptidase M24B family. Eukaryotic-type prolidase subfamily.

图片



Immunocytochemistry/ Immunofluorescence - Anti-PEPD antibody (ab111851)

ab111851 stained HepG2 cells. The cells were 4% formaldehyde fixed for 10 minutes at room temperature and then incubated in 1%BSA / 10% normal goat serum / 0.3M glycine in 0.1% PBS-Tween for 1hour at room temperature to permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody (ab111851 at 5µg/ml) overnight at +4°C. The secondary antibody (pseudo-colored green) was Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed (ab150081) used at a 1/1000 dilution for 1hour at room temperature. Alexa Fluor® 594 WGA was used to label plasma membranes (pseudo-colored red) at a 1/200 dilution for 1hour at room temperature. DAPI was used to stain the cell nuclei (pseudo-colored blue) at a concentration of 1.43µM for 1hour at room temperature.



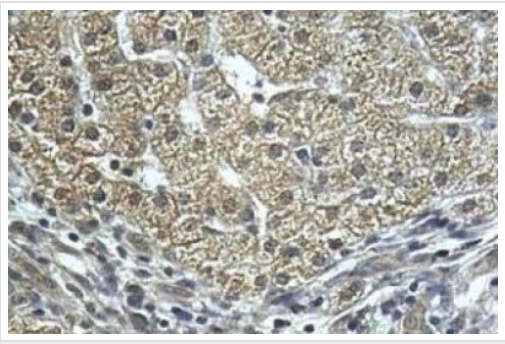
Western blot - PEPD antibody (ab111851)

All lanes : Anti-PEPD antibody (ab111851) at 1/500 dilution

Lane 1 : HeLa cell lysate

Lane 2 : HepG2 cell lysate

Predicted band size : 55 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - PEPD antibody (ab111851)

ab111851, at a 1/100 dilution, staining PEPD in Formalin-fixed, Paraffin-embedded Human fetal liver tissue by Immunohistochemistry.

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