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DPEP3 Antibody (C-term)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP10789b

Specification

DPEP3 Antibody (C-term) - Product Information

Application	**WB,E**
Primary Accession	Q9H4B8
Other Accession	NP_001123230.1
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Antigen Region	**391-420**

DPEP3 Antibody (C-term) - Additional Information

Gene ID 64180

Other Names
Dipeptidase 3, DPEP3

Target/Specificity
This DPEP3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 391-420 amino acids from the C-terminal region of human DPEP3.

Dilution
WB~~1:1000

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
DPEP3 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

DPEP3 Antibody (C-term) - Protein Information

Name DPEP3

Function Lacks dipeptidase activity and is unable to hydrolyze cystinyl-bis-glycine, leukotriene D4 and the beta-lactam antibiotic imipenem (PubMed:32325220). The absence of activity may be due to the inability of asparagine (instead of aspartate found in DPEP1/2) at position 359 to function as

the acid/base catalyst and activate the nucleophilic water/hydroxide (PubMed:32325220). A tyrosine (instead of histidine) at position 269 reduces affinity for the beta zinc and may cause substrate steric hindrance (PubMed:32325220).

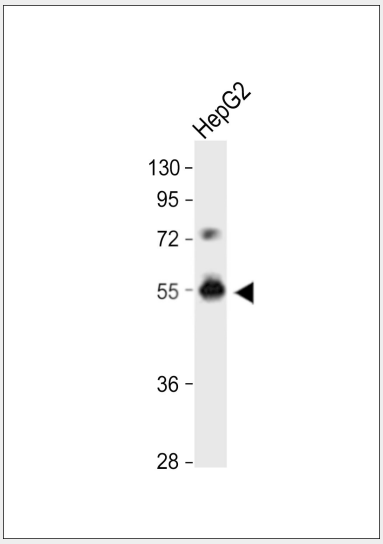
Cellular Location
Membrane {ECO:0000250|UniProtKB:Q9DA79}; Lipid- anchor, GPI-anchor {ECO:0000250|UniProtKB:Q9DA79}

DPEP3 Antibody (C-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

DPEP3 Antibody (C-term) - Images



DPEP3 Antibody (C-term) (Cat. #AP10789b) western blot analysis in HepG2 cell line lysates (35ug/lane).This demonstrates the DPEP3 antibody detected the DPEP3 protein (arrow).

DPEP3 Antibody (C-term) - Background

This gene encodes a membrane-bound glycoprotein from the family of dipeptidases involved in hydrolytic metabolism of various dipeptides, including penem and carbapenem beta-lactam antibiotics. This gene is located on chromosome 16 in a cluster with another member of this family. Alternatively spliced transcript variants that encode different isoforms have been found for this gene.

DPEP3 Antibody (C-term) - References

Sabatti, C., et al. Nat. Genet. 41(1):35-46(2009)
Clark, H.F., et al. Genome Res. 13(10):2265-2270(2003)
Habib, G.M., et al. FASEB J. 17(10):1313-1315(2003)