

# DPEP3 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)  
Catalog # AP10789b

## Product Information

---

<b>Application</b>	WB, E
<b>Primary Accession</b>	<a href="#">Q9H4B8</a>
<b>Other Accession</b>	<a href="#">NP_001123230.1</a>
<b>Reactivity</b>	Human
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	Rabbit IgG
<b>Clone Names</b>	RB28639
<b>Calculated MW</b>	53687
<b>Antigen Region</b>	391-420

## Additional Information

---

<b>Gene ID</b>	64180
<b>Other Names</b>	Dipeptidase 3, DPEP3
<b>Target/Specificity</b>	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.
<b>Dilution</b>	WB~~1:1000 E~~Use at an assay dependent concentration.
<b>Format</b>	Purified polyclonal antibody supplied in PBS with 0.05% (V/V) Proclin 300. This antibody is purified through a protein A column, followed by peptide affinity purification.
<b>Storage</b>	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.
<b>Precautions</b>	DPEP3 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

---

<b>Name</b>	DPEP3
<b>Function</b>	Lacks dipeptidase activity and is unable to hydrolyze cystinyl-bis-glycine, leukotriene D4 and the beta-lactam antibiotic imipenem (PubMed: <a href="#">32325220</a> ). 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}

**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.

**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)

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