

**DPEP3 Antibody (C-term) Blocking peptide**  
Synthetic peptide  
Catalog # BP10789b**Specification**

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**DPEP3 Antibody (C-term) Blocking peptide - Product Information**Primary Accession [Q9H4B8](#)**DPEP3 Antibody (C-term) Blocking peptide - Additional Information**

Gene ID 64180

**Other Names**

Dipeptidase 3, DPEP3

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**DPEP3 Antibody (C-term) Blocking peptide - 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:<a href="http://www.uniprot.org/citations/32325220" target="\_blank">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:<a href="http://www.uniprot.org/citations/32325220" target="\_blank">32325220</a>). A tyrosine (instead of histidine) at position 269 reduces affinity for the beta zinc and may cause substrate steric hindrance (PubMed:<a href="http://www.uniprot.org/citations/32325220" target="\_blank">32325220</a>).

**Cellular Location**

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

**DPEP3 Antibody (C-term) Blocking peptide - Protocols**

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

- [Blocking Peptides](#)

#### **DPEP3 Antibody (C-term) Blocking peptide - Images**

#### **DPEP3 Antibody (C-term) Blocking peptide - 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) Blocking peptide - 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)