

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

DPEP3 Antibody (C-term) Blocking peptide - Product InformationPrimary 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: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) 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)