

**DEFA3 Antibody (C-term) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP19266b****Specification**

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**DEFA3 Antibody (C-term) Blocking Peptide - Product Information**Primary Accession [P59666](#)**DEFA3 Antibody (C-term) Blocking Peptide - Additional Information****Gene ID** 1668**Other Names**

Neutrophil defensin 3, Defensin, alpha 3, HNP-3, HP-3, HP3, HP 3-56, Neutrophil defensin 2, HNP-2, HP-2, HP2, DEFA3, DEF3

**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.

**DEFA3 Antibody (C-term) Blocking Peptide - Protein Information****Name** DEFA3**Synonyms** DEF3**Function**

Effector molecule of the innate immune system that acts via antibiotic-like properties against a broad array of infectious agents including bacteria, fungi, and viruses (PubMed:<a href="http://www.uniprot.org/citations/15616305" target="\_blank">15616305</a>, PubMed:<a href="http://www.uniprot.org/citations/15772169" target="\_blank">15772169</a>, PubMed:<a href="http://www.uniprot.org/citations/17142766" target="\_blank">17142766</a>). Possesses the ability to neutralize bacterial toxins such as B.anthraxis lethal factor, Clostridium difficile cytotoxin B as well as leukocidin produced by Staphylococcus aureus (PubMed:<a href="http://www.uniprot.org/citations/15772169" target="\_blank">15772169</a>, PubMed:<a href="http://www.uniprot.org/citations/18435932" target="\_blank">18435932</a>, PubMed:<a href="http://www.uniprot.org/citations/25963798" target="\_blank">25963798</a>). Also blocks herpes simplex virus infection by interacting with envelope glycoprotein B and thus preventing its binding to heparan sulfate, the receptor for attachment (PubMed:<a href="http://www.uniprot.org/citations/17142766" target="\_blank">17142766</a>).

**Cellular Location**

Secreted.

### **DEFA3 Antibody (C-term) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

### **DEFA3 Antibody (C-term) Blocking Peptide - Images**

### **DEFA3 Antibody (C-term) Blocking Peptide - Background**

Defensins are a family of microbicidal and cytotoxic peptides thought to be involved in host defense. They are abundant in the granules of neutrophils and also found in the epithelia of mucosal surfaces such as those of the intestine, respiratory tract, urinary tract, and vagina. Members of the defensin family are highly similar in protein sequence and distinguished by a conserved cysteine motif. The protein encoded by this gene, defensin, alpha3, is found in the microbicidal granules of neutrophils and likely plays a role in phagocyte-mediated host defense. Several alpha defensin genes are clustered on chromosome 8. This gene differs from defensin, alpha 1 by only one amino acid. This gene and the gene encoding defensin, alpha 1 are both subject to copy number variation.

### **DEFA3 Antibody (C-term) Blocking Peptide - References**

Han, S., et al. Hum. Immunol. 71(7):727-730(2010)  
Chen, Q., et al. Anesthesiology 112(6):1428-1434(2010)  
Rajaraman, P., et al. Cancer Epidemiol. Biomarkers Prev. 19(5):1356-1361(2010)  
Paslakis, G., et al. Nephron Exp. Nephrol. 115 (4), E96-E100 (2010)  
Rodriguez-Garcia, M., et al. PLoS ONE 5 (2), E9436 (2010) :