

**DEFA1/3 precursor Antibody (internal region)**  
Peptide-affinity purified goat antibody  
Catalog # AF3064a**Specification**

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**DEFA1/3 precursor Antibody (internal region) - Product Information**

Application	IHC, WB
Primary Accession	<a href="#">P59666</a>
Other Accession	<a href="#">NP_004075.1</a> , <a href="#">NP_005208.1</a> , <a href="#">1667</a> , <a href="#">1668</a>
Reactivity	Human
Host	Goat
Clonality	Polyclonal
Concentration	0.5 mg/ml
Isotype	IgG
Calculated MW	10245

**DEFA1/3 precursor Antibody (internal region) - 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**

0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

DEFA1/3 precursor Antibody (internal region) is for research use only and not for use in diagnostic or therapeutic procedures.

**DEFA1/3 precursor Antibody (internal region) - 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:[15616305](http://www.uniprot.org/citations/15616305), PubMed:[15772169](http://www.uniprot.org/citations/15772169), PubMed:[17142766](http://www.uniprot.org/citations/17142766)). Possesses

the ability to neutralize bacterial toxins such as B. anthracis 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>). Blocks also 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>).

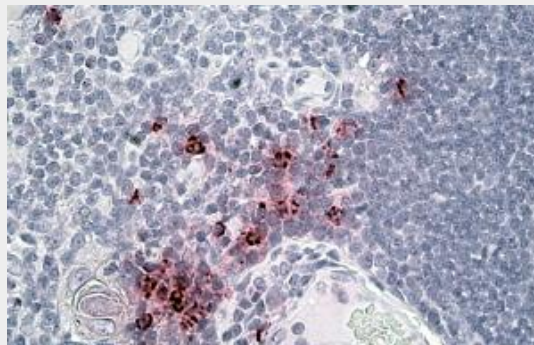
**Cellular Location**  
Secreted.

### **DEFA1/3 precursor Antibody (internal region) - Protocols**

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### **DEFA1/3 precursor Antibody (internal region) - Images**



AF3064a (3.8 µg/ml) staining of paraffin embedded Human Thymus. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.



AF3064a (2  $\mu$ g/ml) staining of Human Spleen lysate (35  $\mu$ g protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

**DEFA1/3 precursor Antibody (internal region) - Background**

This antibody is expected to equally recognize DEFA1 precursor and DEFA3 precursor.

**DEFA1/3 precursor Antibody (internal region) - References**

Dual role of alpha-defensin-1 in anti-HIV-1 innate immunity. Chang TL, Vargas J Jr, DelPortillo A, Klotman ME. J Clin Invest. 2005 Mar;115(3):765-73. PMID: 15719067