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# DEFA3 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP19266b

## Product Information

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| **Application** | IHC-P-Leica, WB, E |
| **Primary Accession** | P59666 |
| **Other Accession** | NP_005208.1 |
| **Reactivity** | Human |
| **Host** | Rabbit |
| **Clonality** | Polyclonal |
| **Isotype** | Rabbit IgG |
| **Clone Names** | RB30594 |
| **Calculated MW** | 10245 |
| **Antigen Region** | 38-65 |

## Additional Information

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| **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 |
| **Target/Specificity** | This DEFA3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 38-65 amino acids from the C-terminal region of human DEFA3. |
| **Dilution** | IHC-P-Leica~~1:500 WB~~1:1000 E~~Use at an assay dependent concentration. |
| **Format** | Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification. |
| **Storage** | 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. |
| **Precautions** | DEFA3 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures. |

## Protein Information

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| **Name** | DEFA3 |
| **Synonyms** | DEF3 |

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| **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, PubMed:15772169, PubMed: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:15772169, PubMed:18435932, PubMed:25963798). 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:17142766). |
| **Cellular Location** | Secreted. |

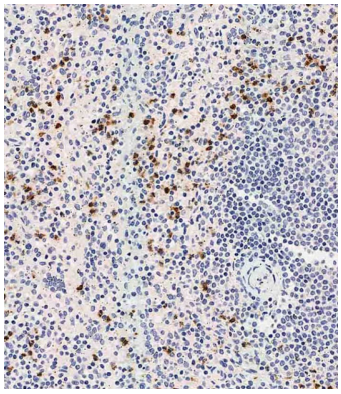
## Background

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, alpha 3, 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.

## References

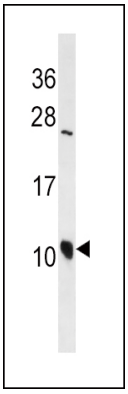
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## Images



Immunohistochemical analysis of AP19266b on paraffin-embedded human spleen tissue was performed on the Leica® BOND RXm. Tissue was fixed with formaldehyde at room temperature. Heat induced epitope retrieval was performed by EDTA buffer (pH9. 0). Samples were incubated with primary antibody(1:500) for 15min at room temperature. Leica Bond Polymer Refine Detection was used as the secondary antibody.

DEFA3 Antibody (C-term)(Cat. #AP19266b) western blot analysis in Jurkat cell line lysates (35ug/lane).This demonstrates the DEFA3 antibody detected the DEFA3 protein (arrow).




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