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DEFA3 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP19266b

Specification

DEFA3 Antibody (C-term) - Product Information

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

DEFA3 Antibody (C-term) - 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

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
WB~~1:1000
IHC-P-Leica~~1:500

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.

DEFA3 Antibody (C-term) - 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, 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). 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:17142766).

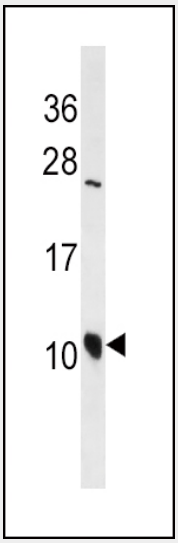
Cellular Location
Secreted.

DEFA3 Antibody (C-term) - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

DEFA3 Antibody (C-term) - Images



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).

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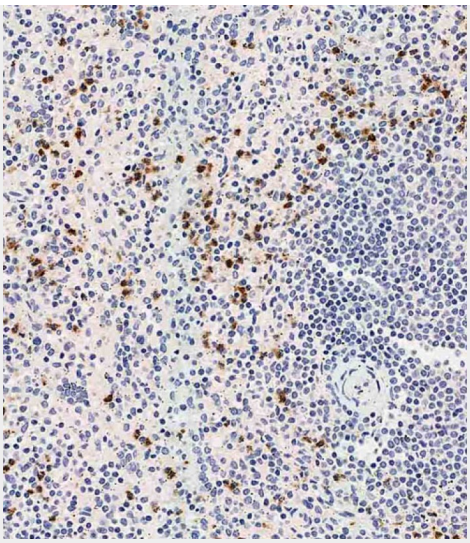

Immunohistochemical analysis of AP19266b on paraffin-embedded human spleen tissue was performed on the Leica® BOND RXm. Tissue was fixed with formaldehyde at room temperature. Heat induced epitope retrieval was performed by EDTA buffer (pH9. 0). Samples were incubated with primary antibody(1:500) for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

DEFA3 Antibody (C-term) - 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.

DEFA3 Antibody (C-term) - 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) :