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**Product Name: Defensin  $\alpha$ 1 Rabbit Polyclonal Antibody****Catalog #: APRab09902**

For research use only.

**Summary**

<b>Description</b>	Rabbit polyclonal Antibody
<b>Host</b>	Rabbit
<b>Application</b>	IHC,ICC/IF,ELISA
<b>Reactivity</b>	Human,Rat,Mouse
<b>Conjugation</b>	Unconjugated
<b>Modification</b>	Unmodified
<b>Isotype</b>	IgG
<b>Clonality</b>	Polyclonal
<b>Form</b>	Liquid
<b>Concentration</b>	1mg/ml
<b>Storage</b>	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
<b>Shipping</b>	Ice bags
<b>Buffer</b>	Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type preservative N.
<b>Purification</b>	Affinity purification

**Application**

<b>Dilution Ratio</b>	IHC 1:100-1:300,ICC/IF 1:50-1:200,ELISA 1:20000-1:40000
<b>Molecular Weight</b>	11kDa

**Antigen Information**

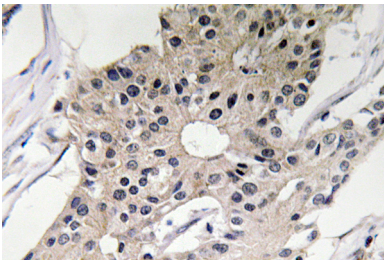
<b>Gene Name</b>	DEFA1
<b>Alternative Names</b>	DEFA1; DEF1; DEFA2; MRS; DEFA1B; Neutrophil defensin 1; Defensin; alpha 1; HNP-1; HP-1; HP1
<b>Gene ID</b>	1667.0
<b>SwissProt ID</b>	P59665
<b>Immunogen</b>	The antiserum was produced against synthesized peptide derived from human Defensin alpha1. AA range:3-52

**Background**

defensin alpha 1(DEFA1) Homo sapiens Defensins are a family of antimicrobial 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 1, 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 3 by only one amino acid. This gene and the gene encoding defensin, alpha 3 are both subject to copy number variation. [provided by RefSeq, Oct 2014],function:Defensin 1 and defensin 2 have antibacterial, fungicide and antiviral activities. Has antimicrobial activity against Gram-negative and Gram-positive bacteria. Defensins are thought to kill microbes by permeabilizing their plasma membrane.,similarity:Belongs to the alpha-defensin family.,subunit:Dimer.,

## Research Area

## Image Data



Immunohistochemistry analysis of Defensin  $\alpha$ 1 antibody in paraffin-embedded human breast carcinoma tissue.