

Defensin alpha 5 Rabbit pAb
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Catalog # AP94769**Specification**

Defensin alpha 5 Rabbit pAb - Product Information

Application	IHC-P
Primary Accession	Q01523
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	10071

Defensin alpha 5 Rabbit pAb - Additional Information**Gene ID** 1670**Other Names**

Defensin alpha 5 {ECO:0000312|HGNC:HGNC:2764}, Defensin-5, HD5(20-94), HD5(23-94), HD5(29-94), HD5(56-94), HD5(63-94), DEFA5, DEF5

Format

0.01M TBS(pH7.4), 0.09% (W/V) sodium azide and 50% Glyce

Storage

Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Defensin alpha 5 Rabbit pAb - Protein Information**Name** DEFA5**Synonyms** DEF5**Function**

Host-defense peptide that maintains sterility in the urogenital system (PubMed:12021776, PubMed:12660734, PubMed:15616305, PubMed:19589339, PubMed:22359618, PubMed:22573326, PubMed:25354318, PubMed:25782105, PubMed:30808760). Has antimicrobial activity against a wide range of bacteria, including Gram-negative E.coli, P.aeruginosa and S.typhimurium, and Gram-positive E.aerogenes, S.aureus, B.cereus, E.faecium and L.monocytogenes (PubMed:12021776)

target="_blank">12021776, PubMed:15616305, PubMed:19589339, PubMed:22359618, PubMed:22573326, PubMed:25354318, PubMed:30808760). Confers resistance to intestinal infection by *S.typhimurium* (PubMed:12660734). Exhibits antimicrobial activity against enteric commensal bacteria such as *B.adolescentis*, *L.acidophilus*, *B.breve*, *L.fermentum*, *B.longum* and *S.thermophilus* (PubMed:25354318). Binds to bacterial membranes and causes membrane disintegration (PubMed:25782105). Induces the secretion of the chemokine IL-8 by intestinal epithelial cells (PubMed:19589339). Binds to *B.antracis* Ief/lethal factor, a major virulence factor from *B.anthraxis*, and neutralizes its enzymatic activity (PubMed:22573326).

Cellular Location

Secreted. Cytoplasmic vesicle, secretory vesicle. Note=Stored as propeptide HD5(20-94) in secretory granules of small intestinal Paneth cells and found in the ileum lumen as processed mature peptides, predominantly in the HD5(63-94) form (PubMed:12021776). Peptides HD5(20-94), HD5(23-94) and HD5(29-94) are found within tissues, HD5(20- 94) being the predominant intracellular form. Peptides HD5(56-94) and HD5(63-94) are found in the extracellular milieu, HD5(63-94) being the most abundant form (PubMed:12021776). Secreted into the female genital tract lumen (PubMed:9588893).

Tissue Location

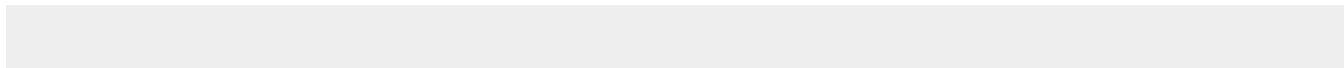
Expressed in the gastrointestinal, reproductive, and urinary tracts (at protein level) (PubMed:12021776, PubMed:1429669, PubMed:22359618, PubMed:9588893). Expressed in Paneth cells of the small intestine (at protein level) (PubMed:12021776, PubMed:1429669) Expressed throughout the urothelium of the lower urinary tract and in the collecting tubules of the kidney (at protein level) (PubMed:22359618). Expressed in stratified squamous epithelial cells of the female genital tract epithelia, such as in vagina, ectocervix, endocervix, endometrium, and fallopian tube (at protein level) (PubMed:9588893). Endometrial expression correlates with stages of the menstrual cycle: Expression is low during the early proliferative phase, increased during the mid- to late proliferative phase, peaks during the early secretory phase of the cycle, and decreases during the mid- to late secretory phase (PubMed:9588893)

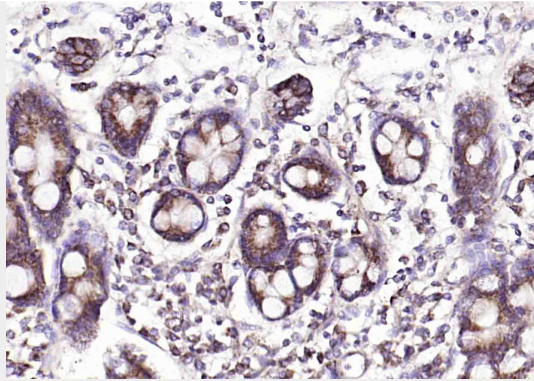
Defensin alpha 5 Rabbit pAb - Protocols

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

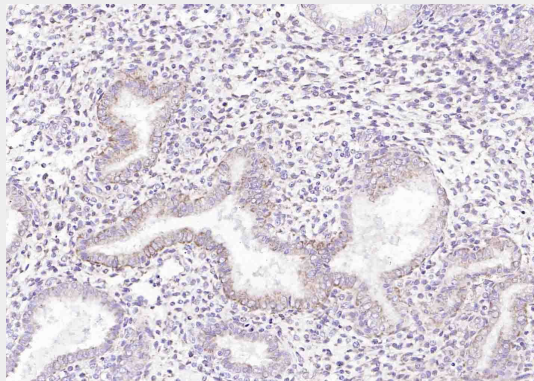
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Defensin alpha 5 Rabbit pAb - Images





Paraformaldehyde-fixed, paraffin embedded (Human duodenum); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Incubation with (Defensin alpha 5) Polyclonal Antibody, Unconjugated (AP94769) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (human endometrial); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Incubation with (Defensin alpha 5) Polyclonal Antibody, Unconjugated (AP94769) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.

Defensin alpha 5 Rabbit pAb - Background

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.