

Defensin alpha 1 Antibody
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP51161**Specification**

Defensin alpha 1 Antibody - Product Information

Application	WB
Primary Accession	P59665
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	10 KDa
Antigen Region	11 - 70

Defensin alpha 1 Antibody - Additional Information**Gene ID** 1667;728358**Other Names**

Neutrophil defensin 1, Defensin, alpha 1, HNP-1, HP-1, HP1, HP 1-56, Neutrophil defensin 2, HNP-2, HP-2, HP2, DEFA1, DEF1, DEFA2, MRS

Target/Specificity

KLH conjugated synthetic peptide derived from human Defensin alpha 1

Dilution

WB~~ 1:1000

Format

0.01M PBS, pH 7.2, 0.09% (W/V) Sodium azide, Glycerol 50%

Storage

Store at -20 °C. Stable for 12 months from date of receipt

Defensin alpha 1 Antibody - Protein Information**Name** DEFA1**Synonyms** DEF1, DEFA2, MRS**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 or by promoting the activation and maturation of some APCs (PubMed:15616305, PubMed:17142766, PubMed:20220136, PubMed:24236072). Interacts

with the essential precursor of cell wall synthesis lipid II to inhibit bacterial cell wall synthesis (PubMed:20214904). Inhibits adenovirus infection via inhibition of viral disassembly at the vertex region, thereby restricting the release of internal capsid protein pVI, which is required for endosomal membrane penetration during cell entry (PubMed:18191790). In addition, interaction with adenovirus capsid leads to the redirection of viral particles to TLR4 thereby promoting a NLRP3-mediated inflammasome response and interleukin 1-beta (IL-1beta) release (PubMed:35080426). Induces the production of proinflammatory cytokines including type I interferon (IFN) in plasmacytoid dendritic cells (pDCs) by triggering the degradation of NFkBIA and nuclear translocation of IRF1, both of which are required for activation of pDCs (PubMed:27031443).

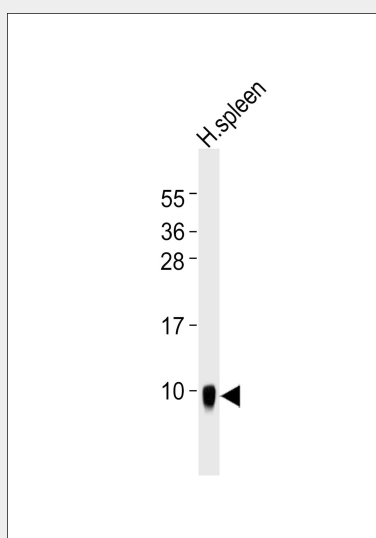
Cellular Location
Secreted.

Defensin alpha 1 Antibody - 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 1 Antibody - Images



Anti-Defensin alpha 1 Antibody at 1:1000 dilution + human spleen lysates Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution
Predicted band size : 10 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

Defensin alpha 1 Antibody - Background

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.

Defensin alpha 1 Antibody - References

Daher K.A.,et al.Proc. Natl. Acad. Sci. U.S.A. 85:7327-7331(1988).
Mars W.M.,et al.Blood 71:1713-1719(1988).
Wiedemann L.M.,et al.Leukemia 3:227-234(1989).
Mars W.M.,et al.J. Biol. Chem. 270:30371-30376(1995).
Linzmeier R.,et al.FEBS Lett. 321:267-273(1993).