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HNP-4 / DEFA4 Antibody (aa27-76)

Rabbit Polyclonal Antibody
Catalog # ALS16987

Specification

HNP-4 / DEFA4 Antibody (aa27-76) - Product Information

Application	**IHC**
Primary Accession	P12838
Other Accession	1669
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**IgG**
Calculated MW	**10504**

HNP-4 / DEFA4 Antibody (aa27-76) - Additional Information

Gene ID 1669

Other Names
DEFA4, DEF4, Corticostatin, HNP-4, HP-4, HP4, Defensin, alpha 4, Neutrophil defensin 4

Target/Specificity
Defensin alpha 4 antibody detects endogenous levels of Defensin alpha 4.

Reconstitution & Storage
PBS, pH 7.4, 150 mM sodium chloride, 0.02% sodium azide, 50% glycerol. Store at -20°C.

Precautions
HNP-4 / DEFA4 Antibody (aa27-76) is for research use only and not for use in diagnostic or therapeutic procedures.

HNP-4 / DEFA4 Antibody (aa27-76) - Protein Information

Name DEFA4 (HGNC:2763)

Function
Host-defense peptide that has antimicrobial activity against Gram-negative bacteria, and to a lesser extent also against Gram- positive bacteria and fungi (PubMed:2500436, PubMed:2501794, PubMed:15317502, PubMed:15616305, PubMed:30658057). Exhibits antimicrobial activity against Gram-negative E.coli and E.aerogenes and Gram-positive S.faecalis, S.aureus and B.cereus and the yeast C.albicans (in vitro) (PubMed:2500436, PubMed:2501794, PubMed:<a

href="http://www.uniprot.org/citations/15317502" target="_blank">15317502, PubMed:15616305, PubMed:17088326, PubMed:30658057). Interacts with pathogenic surface proteins and toxins, such as HIV-1 surface protein gp120 and B.anthracis anthrax lethal factor lef (PubMed:15620707, PubMed:30658057). Protects blood cells against infection with HIV-1 (in vitro) (PubMed:15620707). Inhibits enzymatic activity of B.anthracis lef/anthrax lethal factor (in vitro) (PubMed:30658057). Inhibits corticotropin (ACTH)-stimulated corticosterone production (in vitro) (PubMed:2843187).

Cellular Location
Secreted {ECO:0000250|UniProtKB:Q01523}. Cytoplasmic vesicle, secretory vesicle. Note=Stored as mature peptide in neutrophil granules.

Tissue Location
Expressed in neutrophils (at protein level) (PubMed:2843187, PubMed:2500436, PubMed:2501794). Expressed in bone marrow (PubMed:8469233).

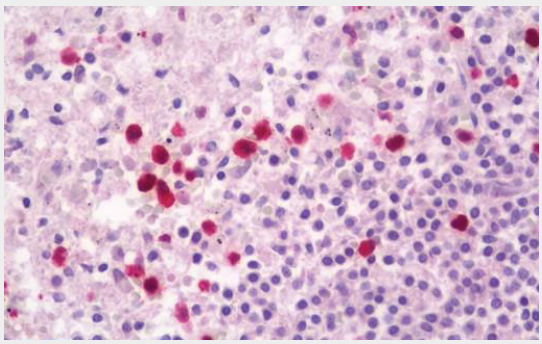
Volume
50 µl

HNP-4 / DEFA4 Antibody (aa27-76) - 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

HNP-4 / DEFA4 Antibody (aa27-76) - Images



Anti-HNP-4 / DEFA4 antibody IHC staining of human spleen.

HNP-4 / DEFA4 Antibody (aa27-76) - Background

Has antimicrobial activity against Gram-negative bacteria, and to a lesser extent also against Gram-positive bacteria and fungi. Protects blood cells against infection with HIV-1 (in vitro). Inhibits corticotropin (ACTH)-stimulated corticosterone production.

HNP-4 / DEFA4 Antibody (aa27-76) - References

Palfree R.G.E.,et al.Mol. Endocrinol. 7:199-205(1993).
Nusbaum C.,et al.Nature 439:331-335(2006).
Mural R.J.,et al.Submitted (JUL-2005) to the EMBL/GenBank/DDBJ databases.
Singh A.,et al.Biochem. Biophys. Res. Commun. 155:524-529(1988).
Wilde C.G.,et al.J. Biol. Chem. 264:11200-11203(1989).