

HNP-4 / DEFA4 Antibody (Asp27)
Rabbit Polyclonal Antibody
Catalog # ALS16235**Specification**

HNP-4 / DEFA4 Antibody (Asp27) - Product Information

Application	IHC
Primary Accession	P12838
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	11kDa KDa

HNP-4 / DEFA4 Antibody (Asp27) - Additional Information**Gene ID** 1669**Other Names**

Neutrophil defensin 4, Defensin, alpha 4, HNP-4, HP-4, DEFA4, DEF4

Target/Specificity

Human HNP-4 / DEFA4

Reconstitution & Storage

Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze-thaw cycles.

Precautions

HNP-4 / DEFA4 Antibody (Asp27) is for research use only and not for use in diagnostic or therapeutic procedures.

HNP-4 / DEFA4 Antibody (Asp27) - 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](http://www.uniprot.org/citations/2500436), PubMed:[2501794](http://www.uniprot.org/citations/2501794), PubMed:[15317502](http://www.uniprot.org/citations/15317502), PubMed:[15616305](http://www.uniprot.org/citations/15616305), PubMed:[30658057](http://www.uniprot.org/citations/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](http://www.uniprot.org/citations/2500436), PubMed:[2501794](http://www.uniprot.org/citations/2501794), PubMed:[15317502](http://www.uniprot.org/citations/15317502), PubMed:[15616305](http://www.uniprot.org/citations/15616305), PubMed:[30658057](http://www.uniprot.org/citations/30658057)).

href="http://www.uniprot.org/citations/17088326" target="_blank">17088326, PubMed:30658057). Interacts with pathogenic surface proteins and toxins, such as HIV-1 surface protein gp120 and B.anthraxis 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.anthraxis 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

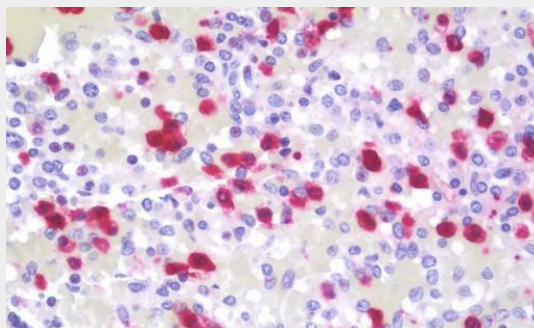
50 µl

HNP-4 / DEFA4 Antibody (Asp27) - 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](#)

HNP-4 / DEFA4 Antibody (Asp27) - Images



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

HNP-4 / DEFA4 Antibody (Asp27) - 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 (Asp27) - 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).