

## Product datasheet for **AP20620PU-M**

### Neutrophil defensin 4 (DEFA4) Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	<b>Western blot:</b> 1/500-1/1000. <b>Immunohistochemistry on Paraffin Sections:</b> 1/50-1/200.
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Synthetic peptide, corresponding to the N-terminus of Human Defensin alpha 4.
Specificity:	This antibody detects endogenous levels of Defensin $\alpha$ 4 protein. (region surrounding Asp27)
Formulation:	PBS, pH 7.2 State: Aff - Purified State: Liquid purified Ig fraction (> 95% by SDS-PAGE) Preservative: 0.05% Sodium Azide
Concentration:	1.0 mg/ml
Purification:	Immunoaffinity Chromatography
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	~ 11 kDa
Gene Name:	defensin alpha 4
Database Link:	<a href="#">Entrez Gene 1669 Human P12838</a>



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## Background:

Human neutrophil alpha-defensins (also designated HNPs) are small, cationic, cysteine-rich antimicrobial proteins that play important roles in innate immunity against infectious microbes such as bacteria, fungi and enveloped viruses. Alpha-defensins are synthesized as inactive precursors and are activated by proteolytic cleavage by MMP-7. Paneth cells in small intestinal crypts secrete the alpha-defensins, which are also termed cryptidins in mice. The cryptidin-4 gene is unique among the Paneth cell alpha defensins in that it is inactive in the duodenum, but expressed at maximal levels in the distal small bowel.

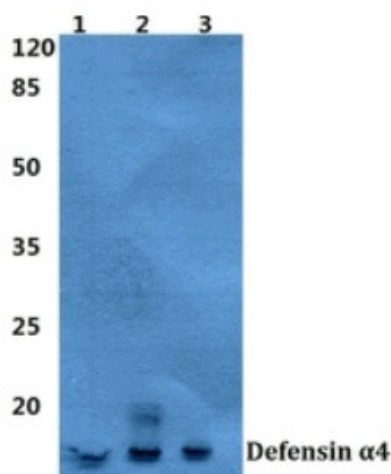
## Synonyms:

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

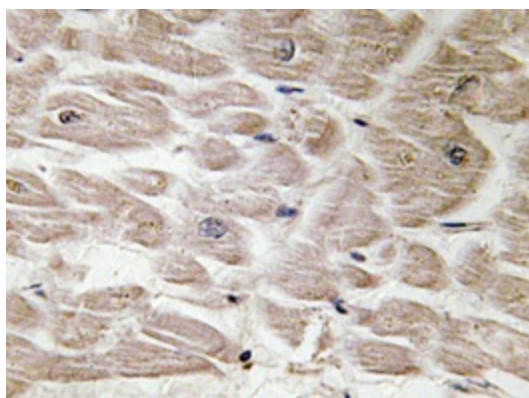
## Protein Families:

Secreted Protein

## Product images:



Western blot analysis of Defensin alpha 4 antibody at a 1/500 dilution. Lane 1: MCF-7 cell lysate. Lane 2: Mouse spleen tissue extract. Lane 3: Rat spleen tissue extract.



Immunohistochemistry analysis of Defensin alpha 4 antibody in paraffin-embedded human heart tissue.