

## Human Defensin alpha 1 ELISA Kit | DEFA1 elisa kit

Human Defensin alpha 1 ELISA Kit

CATALOG #  
**AAA263321**

REACTIVITY  
**Human**

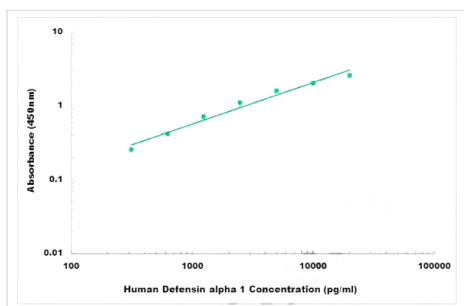
### PRODUCT SYNONYMS

Defensin alpha 1; Human Defensin alpha 1 ELISA Kit; DEF1; DEFA2; MRS; Neutrophil defensin 1; Defensin; alpha 1; HNP-1; HP-1; HP1; DEFA1 elisa kit

### PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                                                                                 |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reactivity              | Human                                                                                                                                                                                                           |
| Specificity             | The Human Defensin alpha 1 ELISA Kit allows for the detection and quantification of endogenous levels of natural and/or recombinant Human Defensin alpha 1 protein within the range of 312 pg/ml - 20000 pg/ml. |
| Sequence Length         | 94                                                                                                                                                                                                              |
| Samples                 | Culture Supernates, Serum, Plasma, Cell Lysates, Tissue Homogenates                                                                                                                                             |
| Sensitivity             | < 150 pg/ml                                                                                                                                                                                                     |
| Detection Method        | Colorimetric                                                                                                                                                                                                    |
| Preparation and Storage | Store at 4 degree C for 6 months, store at -20 degree C for one year. Avoid freeze/thaw cycles.                                                                                                                 |

### IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

|                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for DEFA1 elisa kit | <p>Background: Human Defensin alpha 1 (DEFA1) is 94 amino acids (aa) in length and is cleaved into the following chains: HP 1-56 (aa 39-94), Neutrophil defensin 1 (aa 65-94) and Neutrophil defensin 2 (aa 66-94). Defensins are secreted peptides that kill microbes by permeabilizing their plasma membrane. DEFA1 has antimicrobial activity against Gram-negative and Gram-positive bacteria. ADP-ribosylation reduces cytotoxic and antibacterial activities, it is also known to enhance IL8 production.</p> <p>Principle of the Assay: The Human Defensin alpha 1 ELISA (Enzyme-Linked Immunosorbent Assay) kit is an in vitro enzyme-linked immunosorbent assay for the quantitative measurement of Human Defensin alpha 1 in Cell Culture Supernates, Serum, Plasma, Cell Lysates, Tissue Homogenates. This assay employs an antibody specific for Human Defensin alpha 1 coated on a 96-well plate. Standards and samples are pipetted into the wells and Defensin alpha 1 present in a sample is bound to the wells by the immobilized antibody. The wells are washed and biotinylated anti-Human Defensin alpha 1 antibody is added. After washing away unbound biotinylated antibody, HRP-conjugated streptavidin is pipetted to the wells. The wells are again washed, a TMB substrate solution is added to the wells and color develops in proportion to the amount of Defensin alpha 1 bound. The Stop Solution changes the color from blue to yellow, and the intensity of the color is measured at 450 nm.</p> |
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NCBI AND UNIPROT INFORMATION

|                                  |                                               |
|----------------------------------|-----------------------------------------------|
| NCBI GI #                        | 124248516                                     |
| NCBI GeneID                      | 728358                                        |
| NCBI Accession #                 | NP_001035965.1                                |
| NCBI GenBank Nucleotide #        | NM_001042500.1                                |
| UniProt Accession #              | P59665; P11479; Q14125; Q6EZF6                |
| Molecular Weight                 | 10,201 Da                                     |
| NCBI Official Full Name          | neutrophil defensin 1 isoform 2 preproprotein |
| NCBI Official Synonym Full Names | defensin alpha 1B                             |
| NCBI Official Symbol             | DEFA1B                                        |
| NCBI Official Synonym Symbols    | HP1; HP-1; HNP-1                              |
| NCBI Protein Information         | neutrophil defensin 1                         |
| UniProt Protein Name             | Neutrophil defensin 1                         |
| UniProt Gene Name                | DEFA1                                         |
| UniProt Synonym Gene Names       | DEF1; DEFA2; MRS; HP-1; HP1; HP-2; HP2        |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.