

Human Defensin Alpha 3, Neutrophil Specific (DEFa3) ELISA Kit | DEFa3 elisa kit

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CATALOG #
AAA23052

REACTIVITY
Human

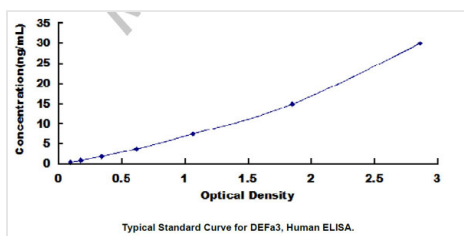
PRODUCT SYNONYMS

Defensin Alpha 3; Neutrophil Specific (DEFa3); Human Defensin Alpha 3; Neutrophil Specific (DEFa3) ELISA Kit; HNP3; DEF3; HNP-2; Neutrophil defensin 2; DEFa3 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of DEFa3. No significant cross-reactivity or interference between DEFa3 and analogues was observed.
Sequence Length	94
Samples	Human serum, plasma, tissue homogenates, cell lysates, cell culture supernates and other biological fluids
Detection Range	0.47-30ng/mL
Sensitivity	< 0.21ng/mL
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level DEFa3 were tested 20 times on one plate, respectively. Intra-Assay: CV<10%
Inter-assay Precision	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level DEFa3 were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100. Inter-Assay: CV<12%
Preparation and Storage	The stability of kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition. To minimize extra influence on the performance, operation procedures and lab conditions, especially room temperature, air humidity, incubator temperature should be strictly controlled. It is also strongly suggested that the whole assay is performed by the same operator from the beginning to the end.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for DEFA3 elisa kit	Principle of the Assay: The microplate provided in this kit has been pre-coated with an antibody specific to DEFA3. Standards or samples are then added to the appropriate microplate wells with a biotin-conjugated antibody specific to DEFA3. Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, only those wells that contain DEFA3, biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm $\pm$ 10nm. The concentration of DEFA3 in the samples is then determined by comparing the O.D. of the samples to the standard curve.
References	Proteomic analysis identifies a signature of disease severity in the plasma of COVID-19 pneumonia patients associated to neutrophil, platelet and complement activation; Clin Proteomics; 2022 Nov 8;19(1):38.; PMID: 36348270; Fabiola Ciccocanti; Department of Epidemiology, Preclinical Research and Advanced Diagnostics, National Institute for Infectious Diseases IRCCS "L. Spallanzani", Rome, Italy.

NCBI AND UNIPROT INFORMATION

NCBI GI #	50057845
NCBI GeneID	1668
UniProt Accession #	P59666; P11479; Q14125
Molecular Weight	10,245 Da
NCBI Official Full Name	defensin, alpha 3, neutrophil-specific
NCBI Official Synonym Full Names	defensin alpha 3
NCBI Official Symbol	DEFA3
NCBI Official Synonym Symbols	HP3; DEF3; HNP3; HP-3; HNP-3
NCBI Protein Information	neutrophil defensin 3
UniProt Protein Name	Neutrophil defensin 3
UniProt Gene Name	DEFA3
UniProt Synonym Gene Names	DEF3; HP-3; HP3; 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.

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Online datasheet: <https://www.aaabiotech.com/human-elisa-kits/defensin-alpha-3-neutrophil-specific-defa3/23052>