

Human Defensin Alpha 5, Paneth Cell Specific (DEFa5) ELISA Kit | DEFa5 elisa kit

Human Defensin Alpha 5, Paneth Cell Specific (DEFa5) High Sensitive ELISA Kit

CATALOG # AAA188560	REACTIVITY Human	APPLICATIONS ELISA
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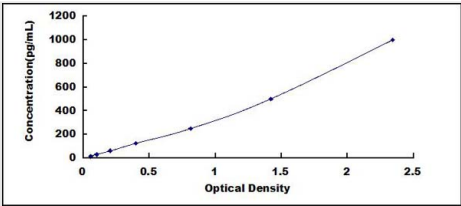
PRODUCT SYNONYMS

Defensin Alpha 5; Paneth Cell Specific (DEFa5); Human Defensin Alpha 5; Paneth Cell Specific (DEFa5) High Sensitive ELISA Kit; Paneth Cell Specific; DEF-A5; DEF5; HD-5; DEFa5 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of High Sensitive Defensin Alpha 5, Paneth Cell Specific (DEFa5). No significant cross-reactivity or interference between High Sensitive Defensin Alpha 5, Paneth Cell Specific (DEFa5) and analogues was observed.
Sequence Length	94
Assay Type	Double-antibody Sandwich
Samples	Serum, plasma, tissue homogenates, cell lysates, cell culture supernates and other biological fluids
Detection Range	15.6-1,000pg/mL
Sensitivity	The minimum detectable dose of this kit is typically less than 6.3pg/mL
Applicable Applications for DEFa5 elisa kit	ELISA
Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level High Sensitive Defensin Alpha 5, Paneth Cell Specific (DEFa5) were tested 20 times on one plate, respectively. Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level High Sensitive Defensin Alpha 5, Paneth Cell Specific (DEFa5) were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100 Intra-Assay: CV<10% Inter-Assay: CV<12%
Test Principle	The test principle applied in this kit is Sandwich enzyme immunoassay. The microtiter plate provided in this kit has been pre-coated with an antibody specific to High Sensitive Defensin Alpha 5, Paneth Cell Specific (DEFa5). Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody specific to High Sensitive Defensin Alpha 5, Paneth Cell Specific (DEFa5). 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 High Sensitive Defensin Alpha 5, Paneth Cell Specific (DEFa5), 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 +/- 10nm. The concentration of High Sensitive Defensin Alpha 5, Paneth Cell Specific (DEFa5) in the samples is then determined by comparing the O.D. of the samples to the standard curve.
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)

NCBI AND UNIPROT INFORMATION

NCBI GI #	10337585
NCBI GeneID	1670
NCBI Accession #	NP_066290.1
NCBI GenBank Nucleotide #	NP_066290.1
UniProt Accession #	Q01523
NCBI Official Full Name	defensin-5 preproprotein
NCBI Official Synonym Full Names	defensin alpha 5
NCBI Official Symbol	DEFA5
NCBI Official Synonym Symbols	DEF5; HD-5
NCBI Protein Information	defensin-5
UniProt Protein Name	Defensin-5
UniProt Gene Name	DEFA5
UniProt Synonym Gene Names	DEF5
UniProt Entry Name	DEF5_HUMAN

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://stage.aaabiotech.com/human-elisa-kits/defensin-alpha-5-paneth-cell-specific-defa5/188560>