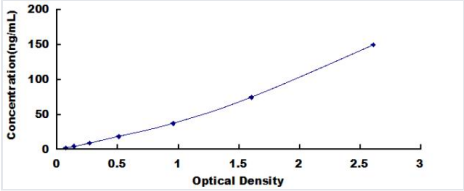
Defensin Alpha 6, Paneth Cell Specific (DEFa6) ELISA Kit for Human

PRODUCT OVERVIEW

Product Name	Defensin Alpha 6, Paneth Cell Specific (DEFa6), ELISA Kit
Full Product Name	Human Defensin Alpha 6, Paneth Cell Specific (DEFa6) ELISA Kit
Product Gene Name	DEFa6 elisa kit
Product Synonym Names	DEF6; Defensin-6
Species Reactivity	Human
Assay Type	Sandwich
Samples	Serum, Plasma, Tissue Homogenates, Cell Lysates or Other Biological Fluids.
Detection Range	2.34-150ng/mL
Sensitivity	1.07ng/mL
Preparation and Storage	For unopened kits: All the reagents should be kept at 4 degree C upon receipt. For opened kits: Once the kit is opened, the remaining reagents still need to be stored according to the above storage conditions. In addition, return the unused wells to the foil pouch containing the desiccant pack and reseal along entire edge of zip-seal.
Molecular Weight	10,975 Da
OMIM	600471
3D Structure	ModBase 3D Structure for Q01524
RTU ELISA Kit's Advantage	The Ready-To-Use (RTU) Kits require fewer steps in setup and take less time to run. Detection Solutions are pre-diluted and total incubation time is shorter than many other ELISA Kits.
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Related Product Information for DEFa6 elisa kit	Test Principle: The microtiter plate provided in this kit has been pre-coated with an antibody specific to DEFa6. Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody preparation specific to DEFa6. 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 DEFa6, 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 DEFa6 in the samples is then determined by comparing the O.D. of the samples to the standard curve.
Other Notes	Small volumes of DEFa6 elisa kit vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for DEFa6 purchase	MBS458819 is a ready-to-use microwell, strip-or-full plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Defensin Alpha 6, Paneth Cell Specific (DEFa6) ELISA Kit target analytes in biological samples. The concentration gradients of the kit standards or positive controls render a theoretical kit detection range in biological research samples containing DEFa6. The ELISA analytical biochemical technique of the MBS458819 kit is based on DEFa6 antibody-DEFa6 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect DEFa6 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, DEFa6. Appropriate sample types may include undiluted body fluids and/or tissue homogenates, secretions. Quality control assays assessing reproducibility identified the intra-assay CV (%) and inter-assay CV(%).



Typical Testing Data/Standard Curve (for reference only) of DEFa6 elisa kit

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for DEFa6. It may not necessarily be applicable to this product.

NCBI GI #	4503305
NCBI GeneID	1671
NCBI Accession #	NP_001917.1
UniProt Primary Accession #	Q01524
UniProt Secondary Accession #	Q6EZF9
UniProt Related Accession #	Q01524
GenBank Nucleotide #	NM_001926.3
NCBI Official Full Name	defensin-6 preproprotein
NCBI Official Synonym Full Names	defensin alpha 6
NCBI Official Symbol	DEFA6
NCBI Official Synonym Symbols	DEF6; HD-6
UniProt Protein Name	Defensin-6
UniProt Synonym Protein Names	Defensin, alpha 6
Protein Family	Alpha-defensin
UniProt Gene Name	DEFA6
UniProt Synonym Gene Names	DEF6
NCBI Protein Information	defensin-6
NCBI Summary for DEFa6	Defensins are a family of antimicrobial and cytotoxic peptides thought to be involved in host defense. They are abundant in the granules of neutrophils and also found in the epithelia of mucosal surfaces such as those of the intestine, respiratory tract, urinary tract, and vagina. Members of the defensin family are highly similar in protein sequence and distinguished by a conserved cysteine motif. Several alpha defensin genes appear to be clustered on chromosome 8. The protein encoded by this gene, defensin, alpha 6, is highly expressed in the secretory granules of Paneth cells of the small intestine, and likely plays a role in host defense of human bowel. [provided by RefSeq, Oct 2014]
UniProt Comments for DEFa6	Has very low antimicrobial activity against Gram-negative and Gram-positive bacteria. May protect cells against infection with HIV-1.
Research Articles on DEFa6	**1.** HD6 assembled into nanonets can prevent key steps in C. albicans pathogenesis
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.

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