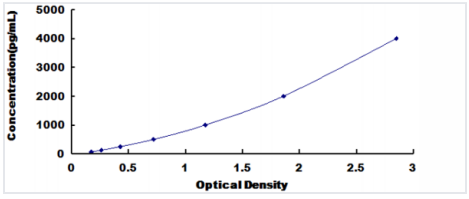
Defensin Beta 1 (DEFb1) ELISA Kit for Human

PRODUCT OVERVIEW

Product Name	Defensin Beta 1 (DEFb1), ELISA Kit
Full Product Name	Human Defensin Beta 1 (DEFb1) ELISA Kit
Product Gene Name	DEFb1 elisa kit
Product Synonym Names	B-DF1; DEFB1; BD1; DEF-B1; DEFB101; HBD1
Species Reactivity	Human
Assay Type	Sandwich
Samples	Serum, plasma, tissue homogenates, cell lysates, cell culture supernates and other biological fluids.
Detection Range	62.5-4000pg/mL
Sensitivity	25.3pg/mL
Preparation and Storage	For unopened kit, all reagents should be kept according to the labels on vials. The TMB Substrate, Wash Buffer, Stop Solution should be stored at 4 degree C. All others should be stored at -20 degree C.
Molecular Weight	7,420 Da
3D Structure	ModBase 3D Structure for P60022
Intra Assay	CV<10%
Inter Assay	CV<12%
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Related Product Information for DEFb1 elisa kit	MBS455436 is a ready-to-use microwell, strip-or-full plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Defensin Beta 1 (DEFb1) 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 DEFb1. The ELISA analytical biochemical technique of the MBS455436 kit is based on DEFb1 antibody-DEFb1 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect DEFb1 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, DEFb1. 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(%).
Other Notes	Small volumes of DEFb1 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.



Typical Testing Data/Standard Curve (for reference only) of DEFb1 elisa kit

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for DEFb1. It may not necessarily be applicable to this product.

NCBI GI #	4885181

NCBI GeneID	1672
NCBI Accession #	NP_005209.1
UniProt Primary Accession #	P60022
UniProt Secondary Accession #	Q09753
UniProt Related Accession #	P60022
GenBank Nucleotide #	NM_005218.3
NCBI Official Full Name	beta-defensin 1 preproprotein
NCBI Official Synonym Full Names	defensin beta 1
NCBI Official Symbol	DEFB1
NCBI Official Synonym Symbols	BD1; HBD1; DEFB-1; DEFB101
UniProt Protein Name	Beta-defensin 1
UniProt Synonym Protein Names	Defensin, beta 1
Protein Family	Beta-defensin
UniProt Gene Name	DEFB1
UniProt Synonym Gene Names	BD1; HBD1; BD-1; hBD-1
NCBI Protein Information	beta-defensin 1
NCBI Summary for DEFb1	Defensins form a family of microbicidal and cytotoxic peptides made by neutrophils. Members of the defensin family are highly similar in protein sequence. This gene encodes defensin, beta 1, an antimicrobial peptide implicated in the resistance of epithelial surfaces to microbial colonization. This gene maps in close proximity to defensin family member, defensin, alpha 1 and has been implicated in the pathogenesis of cystic fibrosis. [provided by RefSeq, Jul 2008]
UniProt Comments for DEFb1	Has bactericidal activity. May act as a ligand for C-C chemokine receptor CCR6. Positively regulates the sperm motility and bactericidal activity in a CCR6-dependent manner. Binds to CCR6 and triggers Ca2+ mobilization in the sperm which is important for its motility (PubMed:25122636).
Research Articles on DEFb1	**1.** The -44 CC genotype of the beta-defensin-1 gene (DEFB1 rs1800972) may be associated with susceptibility to chronic periodontitis in Japanese.
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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