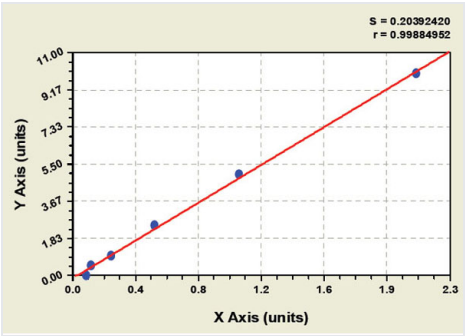
Defensin Beta 2 (DEFbeta2) ELISA Kit for Sheep

PRODUCT OVERVIEW

Product Name	Defensin Beta 2 (DEFbeta2), ELISA Kit
Full Product Name	Sheep Defensin Beta 2 ELISA Kit
Product Gene Name	DEFbeta2 elisa kit
Species Reactivity	Sheep
Assay Type	Competitive
Samples	Serum, plasma, Cell Culture Supernatants, body fluid and tissue homogenate
Detection Range	0.5-10ng/mL
Sensitivity	0.1ng/mL
Preparation and Storage	Store all reagents at 2-8 degree C.
Molecular Weight	7,820 Da
Sample Preparation	We suggest pre-experimenting with neat (undiluted) samples, 1:2 or 1:4 dilutions. Please avoid diluting your samples more than 1:10 as it would exceed the dilution limit set for this kit. If the expected concentration of the target is beyond the detection range of the kit, please contact our technical support team
Intended Uses	This DEFbeta2 ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of Sheep DEFbeta2. This ELISA kit for research use only, not for therapeutic applications!
Product Categories/Family for DEFbeta2 elisa kit	Microbiology
ISO Certification	Manufactured in an ISO 13485:2016 Certified Laboratory.
Related Product Information for DEFbeta2 elisa kit	**Principle of the Assay:** DEFbeta2 ELISA kit applies the quantitative sandwich enzyme immunoassay technique. The microtiter plate has been pre-coated with a monoclonal antibody specific for DEFbeta2. Standards or samples are then added to the microtiter plate wells and DEFbeta2 if present, will bind to the antibody pre-coated wells. In order to quantitatively determine the amount of DEFbeta2 present in the sample, a standardized preparation of horseradish peroxidase (HRP) -conjugated polyclonal antibody, specific for DEFbeta2 are added to each well to "sandwich" the DEFbeta2 immobilized on the plate. The microtiter plate undergoes incubation, and then the wells are thoroughly washed to remove all unbound components. Next, substrate solutions are added to each well. The enzyme (HRP) and substrate are allowed to react over a short incubation period. Only those wells that contain DEFbeta2 and enzyme-conjugated antibody will exhibit a change in color. The enzyme-substrate reaction is terminated by addition of a sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450 nm. A standard curve is plotted relating the intensity of the color (O.D.) to the concentration of standards. The DEFbeta2 concentration in each sample is interpolated from this standard curve.
Other Notes	Small volumes of DEFbeta2 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 DEFbeta2 purchase	MBS741427 is a ready-to-use microwell, strip plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Defensin Beta 2 (DEFbeta2) 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 DEFbeta2. The ELISA analytical biochemical technique of the MBS741427 kit is based on DEFbeta2 antibody-DEFbeta2 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect DEFbeta2 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, DEFbeta2. 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 DEFbeta2 elisa kit

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for DEFbeta2. It may not necessarily be applicable to this product.

NCBI GI #	80478968
NCBI GeneID	13215
NCBI Accession #	AAI09130.1
UniProt Related Accession #	P82020
NCBI Official Full Name	Defensin beta 2
NCBI Official Synonym Full Names	defensin beta 2
NCBI Official Symbol	Defb2
NCBI Official Synonym Symbols	BD-2
UniProt Protein Name	Beta-defensin 2
UniProt Synonym Protein Names	Defensin, beta 2
Protein Family	Beta-defensin
UniProt Gene Name	Defb2
UniProt Synonym Gene Names	BD-2; mBD-2
UniProt Entry Name	DEFB2_MOUSE
NCBI Protein Information	beta-defensin 2
UniProt Comments for DEFbeta2	Has bactericidal activity.
Research Articles on DEFbeta2	**1.** visfatin enhances CAMP, hBD-2, hBD-3, and S100A7 production in human keratinocytes and their orthologs in murine imiquimod-treated psoriatic skin.
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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Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

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