

Datasheet for ABIN5068171 **beta Defensin 1 ELISA Kit**



Overview

Quantity:	96 tests
Target:	beta Defensin 1 (DEFB1)
Reactivity:	Human
Application:	ELISA
Product Details	
Sample Type:	Lung, Media, Tissue Samples, Blood, Kidney, Cartilage, Amniotic Fluid, Cervicovaginal Secretions, Serum, Skin, Muscle, Saliva, Milk
Detection Method:	Colorimetric
Sensitivity:	25 pg/mL
Characteristics:	Beta Defensin 1, Human, ELISA Kit (Beta-defensin 1, BD-1, hBD-1, Defensin, beta 1, DEFB1, BD1, HBD1)
Components:	 Microtiter Strips 1x96 wells coated with Human BD1 AB Standard 800pg/ml 3x1vial Ab (Biotin), 100X 1x150ul Streptavidin (HRP), 100X 1x150ul Sample Diluent, 20X 1x10ml Wash Solution, 100X 1x10ml TMB Substrate 1x12ml Stop Solution (1% 04) 1x12ml

Target Details

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beta Defensin 1 (DEFB1)

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Target Details		
Alternative Name:	Beta Defensin 1 (DEFB1 Products)	
Background:	Defensins are cationic, anti-microbial peptides, produced by many cell types (e.g., leukocytes,	
	epithelium, dendrites), and which play prominent roles in the innate immune response of	
	mammals. Two classes described in humans, the alpha- and beta-defensins, range from 3.5 to	
	4.5kD and are stabilized by three intramolecular disulfide bonds differing by the ordering of the	
	disulfide bonds in the mature peptides. To date, six alpha-defensins (also referred to as Human	
	Neutrophil Peptides, HNP1-6) and six beta-defensins (HBD1-6) have been investigated. All have	
	demonstrated broad-spectrum in vitro antimicrobial activity against bacteria, fungi and	
	enveloped viruses - activities that are expected to be significant for in vivo protection against	
	pathogens. Researchers have also investigated the ability of defensins to induce the release	
	from tissues of cytokines and chemokines involved in inflammatory responses, thereby	
	providing a regulatory role that bridges innate and adaptive immunity. Investigative research	
	has led to the measurement of defensins in serum, saliva, milk, amniotic fluid and lung and	
	cervicovaginal lavage, and culture media of cells and tissue of blood, lung, skin, bowel, muscle,	
	cartilage and kidney, among other sample types.	

Application Details

Plate:	Pre-coated
Protocol:	 Principle: The Human Beta Defensin 1 ELISA kit is based on the binding of Human Beta Defensin 1 in samples to two antibodies, one immobilized on the microtiter wells, and the other conjugated to biotin, which then binds to a streptavidin horseradish peroxidase (HRP) conjugate. After a washing step, chromogenic substrate is added and color is developed by the enzymatic reaction of HRP on the TMB substrate, which is directly proportional to the amount of BD-1 present in the sample. Stopping Solution is added to terminate the reaction, and absorbance at 450nm is then measured using an ELISA microtiter well reader. The concentration of BD-1 in samples is calculated from a standard curve of purified recombinant human BD-1 of designated concentration.
Restrictions:	For Research Use only
Handling	
Storage:	4 °C
Storage Comment:	4°C

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