

Datasheet for ABIN1672794 **GDF15 ELISA Kit**

Image



Overview

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Quantity:	96 tests
Target:	GDF15
Binding Specificity:	AA 197-308
Reactivity:	Human
Method Type:	Sandwich ELISA
Detection Range:	31.2-2000 pg/mL
Minimum Detection Limit:	31.2 pg/mL
Application:	ELISA

Product Details

Purpose:	Sandwich High Sensitivity ELISA kit for Quantitative Detection of Human GDF-15
Brand:	PicoKine™
Sample Type:	Cell Culture Supernatant, Serum, Plasma (heparin), Plasma (EDTA)
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Immunogen:	Expression system for standard: CHO Immunogen sequence: A197-I308
Specificity:	Expression system for standard: CHO Immunogen sequence: A197-I308
Cross-Reactivity (Details):	There is no detectable cross-reactivity with other relevant proteins.

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Product Details

Sensitivity:	<10pg/mL
Material not included:	Microplate reader in standard size. Automated plate washer. Adjustable pipettes and pipette
	tips. Multichannel pipettes are recommended in the condition of large amount of samples in the
	detection. Clean tubes and Eppendorf tubes. Washing buffer (neutral PBS or TBS). Preparation
	of 0.01M TBS: Add 1.2g Tris, 8.5g Nacl

Target Details

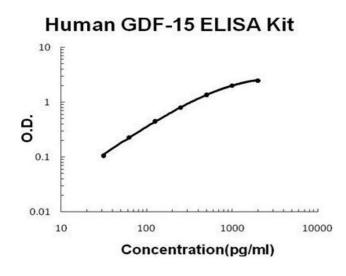
Target:	GDF15
Alternative Name:	GDF15 (GDF15 Products)
Background:	Background: GDF-15(Growth differentiation factor 15),also known as TGF-PL, MIC-1, PDF,
	PLAB, and PTGFB, is a protein belonging to the transforming growth factor beta superfamily
	that has a role in regulating inflammatory and apoptotic pathways in injured tissues and during
	disease processes. Using FISH, the MIC1 gene is mapped to 19p13.2-p13.1. Its expression in
	liver can be significantly up-regulated in during injury of organs such as liver, kidney, heart and
	lung. GDF15 showed increased expression and secretion during erythroblast maturation.
	GDF15 functions as an antiinflammatory cytokine by directly interfering with chemokine
	signaling and integrin activation.
	Synonyms: Growth/differentiation factor 15,GDF-15,Macrophage inhibitory cytokine 1,MIC-
	1,NSAID-activated gene 1 protein,NAG-1,NSAID-regulated gene 1 protein,NRG-1,Placental TGF-
	beta,Placental bone morphogenetic protein,Prostate differentiation factor,GDF15,MIC1, PDF,
	PLAB, PTGFB,
	Full Gene Name: Growth/differentiation factor 15
	Cellular Localisation: Secreted.
Gene ID:	9518
UniProt:	Q99988
Pathways:	SARS-CoV-2 Protein Interactome
Application Details	
Application Notes:	Before using Kit, spin tubes and bring down all components to bottom of tube. Duplicate well
	assay was recommended for both standard and sample testing.
Comment:	Sequence similarities: Belongs to the TGF-beta family.
	Tissue Specificity: Highly expressed in placenta, with lower levels in prostate and colon and

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Application Details

	some expression in kidney.
Plate:	Pre-coated
Protocol:	human GDF-15 ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent
	assay technology. A monoclonal antibody from mouse specific for GDF-15 has been precoated
	onto 96-well plates. Standards(CHO, A197-I308) and test samples are added to the wells, a
	biotinylated detection polyclonal antibody from goat specific for GDF-15 is added subsequently
	and then followed by washing with PBS or TBS buffer. Avidin-Biotin-Peroxidase Complex was
	added and unbound conjugates were washed away with PBS or TBS buffer. HRP substrate
	TMB was used to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a
	blue color product that changed into yellow after adding acidic stop solution. The density of
	yellow is proportional to the human GDF-15 amount of sample captured in plate.
Assay Procedure:	Aliquot 0.1 mL per well of the 2000pg/mL,1000pg/mL, 500pg/mL, 250pg/mL, 125pg/mL,
	62.5pg/mL, 31.2pg/mL human GDF-15 standard solutions into the precoated 96-well plate. Add
	0.1 mL of the sample diluent buffer into the control well (Zero well). Add 0.1 mL of each
	properly diluted sample of human cell culture supernates, serum or plasma(heparin, EDTA) to
	each empty well. See "Sample Dilution Guideline" above for details. It is recommended that
	each human GDF-15 standard solution and each sample be measured in duplicate.
Assay Precision:	Sample 1: n=16, Mean(pg/ml): 104, Standard deviation: 2.5, CV(%): 2.4
	 Sample 2: n=16, Mean(pg/ml): 735, Standard deviation: 27.93, CV(%): 3.8
	• Sample 3: n=16, Mean(pg/ml): 1518, Standard deviation: 68.31, CV(%): 4.5,
	Sample 1: n=24, Mean(pg/ml): 121, Standard deviation: 6.897, CV(%): 5.7
	 Sample 2: n=24, Mean(pg/ml): 757, Standard deviation: 46.18, CV(%): 6.1 Sample 3: n=24, Mean(pg/ml): 1526, Standard deviation: 112.9, CV(%): 7.4
	• Sample 3. h=24, Mean(pg/mi). 1526, Standard deviation. 112.9, CV(%). 7.4
Restrictions:	For Research Use only
Handling	
Handling Advice:	Avoid multiple freeze-thaw cycles.
Storage:	-20 °C,4 °C
Storage Comment:	Store at 4°C for 6 months, at -20°C for 12 months. Avoid multiple freeze-thaw cycles
Expiry Date:	12 months

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ELISA

Image 1. Human GDF-15 PicoKine ELISA Kit standard curve

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