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# Datasheet for ABIN2859222 IL-20 ELISA Kit

1 Image

3 Publications



#### Overview

Quantity:	96 tests
Target:	IL-20 (IL20)
Binding Specificity:	AA 25-176
Reactivity:	Mouse
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 Mouse IL-20
Brand:	PicoKine™
Sample Type:	Cell Culture Supernatant, Serum, Plasma (heparin), Plasma (EDTA)
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Immunogen:	Expression system for standard: E.coli Immunogen sequence: L25-E176
Specificity:	Expression system for standard: E.coli Immunogen sequence: L25-E176
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:	IL-20 (IL20)
Alternative Name:	IL20 (IL20 Products)
Background:	Protein Function: Cytokine that may be involved in epidermal function and psoriasis. Acts
	through STAT3.
	Background: IL-20, also known as Interleukin 20 or Zcyto10, is a protein that in humans is
	encoded by the IL20 gene. This gene is mapped to 1q32.1. IL-20 is a protein belonging to the IL
	10 family of cytokines. This cytokine has been shown to transduce its signal through signal
	transducer and activator of transcription 3 (STAT3) in keratinocytes. A specific receptor for this
	cytokine is found to be expressed in skin and upregulated dramatically in psoriatic skin,
	suggesting a role for this protein in epidermal function and psoriasis. IL-20 regulates
	proliferation and differentiation of keratinocytes during inflammation, particularly inflammation
	associated with the skin. In addition, IL-20 also causes cell expansion of multipotential
	hematopoietic progenitor cells.
	Synonyms: Interleukin-20,IL-20,Cytokine Zcyto10,II20,Zcyto10,
	Full Gene Name: Interleukin-20
	Cellular Localisation: Secreted.
Gene ID:	58181
UniProt:	Q9JKV9
Pathways:	Protein targeting to Nucleus
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.

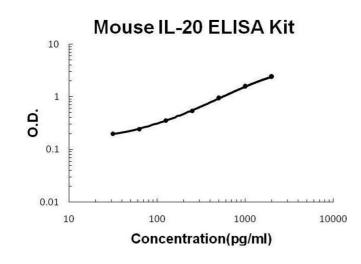
Plate:	Pre-coated
Protocol:	mouse IL-20 ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay

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## Application Details

	technology. A monoclonal antibody from rat specific for IL-20 has been precoated onto 96-well
	plates. Standards(E.coli, L25-E176) and test samples are added to the wells, a biotinylated
	detection polyclonal antibody from goat specific for IL-20 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 mouse IL-20 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 mouse IL-20 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 mouse cell culture supernatants, serum or plasma(heparin, EDTA) to
	each empty well. See "Sample Dilution Guideline" above for details. It is recommended that
	each mouse IL-20 standard solution and each sample be measured in duplicate.
Assay Precision:	Sample 1: n=16, Mean(pg/ml): 285, Standard deviation: 11.97, CV(%): 4.2
	<ul> <li>Sample 2: n=16, Mean(pg/ml): 709, Standard deviation: 36.16, CV(%): 5.1</li> </ul>
	• Sample 3: n=16, Mean(pg/ml): 1126, Standard deviation: 61.93, CV(%): 5.5,
	<ul> <li>Sample 1: n=24, Mean(pg/ml): 343, Standard deviation: 19.55, CV(%): 5.7</li> <li>Sample 2: n=24, Mean(pg/ml): 762, Standard deviation: 48.77, CV(%): 6.4</li> </ul>
	<ul> <li>Sample 3: n=24, Mean(pg/ml): 1280, Standard deviation: 94.72, CV(%): 7.4</li> </ul>
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
Publications	
Product cited in:	Motawi, Mahdy, El-Sawalhi, Ali, El-Telbany: "Serum levels of chemerin, apelin, vaspin, and
	omentin-1 in obese type 2 diabetic Egyptian patients with coronary artery stenosis." in:
	Canadian journal of physiology and pharmacology, Vol. 96, Issue 1, pp. 38-44, (2018) (PubMed
	).

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#### ELISA

Image 1. Mouse IL-20 PicoKine ELISA Kit standard curve

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