

## Datasheet for ABIN1672762

### IL-20 ELISA Kit

[Go to Product page](#)[1 Image](#)[4 Publications](#)

#### Overview

Quantity:	96 tests
Target:	IL-20 (IL20)
Binding Specificity:	AA 25-176
Reactivity:	Human
Method Type:	Sandwich ELISA
Detection Range:	62.5-4000 pg/mL
Minimum Detection Limit:	62.5 pg/mL
Application:	ELISA

#### Product Details

Purpose:	Sandwich High Sensitivity ELISA kit for Quantitative Detection of Human 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.

## 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 ( <a href="#">IL20 Products</a> )
Background:	<p>Protein Function: Proinflammatory and angiogenic cytokine that may be involved in epidermal function and psoriasis. Angiogenic and proliferative activities are antagonized by IL10. May act through STAT3. .</p> <p>Background: Interleukin-20(IL-20) is a protein belonging to the IL-10 family of cytokines. IL-20 is produced by activated keratinocytes and monocytes and transmits an intracellular signal through two distinct cell-surface receptor complexes on keratinocytes and other epithelial cells. By radiation hybrid analysis, the IL20 gene was mapped to chromosome 1q32, where it is tightly linked to the IL10, IL19, and MDA7 genes within a 195-kb region, the IL10 family cytokine cluster. 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.</p> <p>Synonyms: Interleukin-20,IL-20,Cytokine Zcyto10,IL20,ZCYTO10,UNQ852/PRO1801,</p> <p>Full Gene Name: Interleukin-20</p> <p>Cellular Localisation: Secreted.</p>
Gene ID:	50604
UniProt:	<a href="#">Q9NYY1</a>
Pathways:	<a href="#">Protein targeting to Nucleus</a>

## 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 IL-10 family. Tissue Specificity: Expressed in most tissues and five major cell types: epithelial cells (primarily

## Application Details

	skin, buccal mucosa, tongue, nasal mucosa, lung, ureter, breast, prostate, fallopian tube, and adrenal gland), myoepithelial cells (mainly prostate), endothelial cells (mainly in small vessels or capillaries), macrophages, and skeletal muscle. Isoform 2 was detected in the lung tissue only. .
Plate:	Pre-coated
Protocol:	human IL-20 ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from mouse 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 human IL-20 amount of sample captured in plate.
Assay Procedure:	Aliquot 0.1 mL per well of the 4000pg/mL, 2000pg/mL, 1000pg/mL, 500pg/mL, 250pg/mL, 125pg/mL, 62.5pg/mL human 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 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 IL-20 standard solution and each sample be measured in duplicate.
Assay Precision:	<ul style="list-style-type: none"><li>• Sample 1: n=16, Mean(pg/ml): 548, Standard deviation: 35.62, CV(%): 6.5</li><li>• Sample 2: n=16, Mean(pg/ml): 1202, Standard deviation: 84.14, CV(%): 7</li><li>• Sample 3: n=16, Mean(pg/ml): 2279, Standard deviation: 104.8, CV(%): 4.6,</li><li>• Sample 1: n=24, Mean(pg/ml): 623, Standard deviation: 45.5, CV(%): 7.3</li><li>• Sample 2: n=24, Mean(pg/ml): 1560, Standard deviation: 117, CV(%): 7.5</li><li>• Sample 3: n=24, Mean(pg/ml): 2533, Standard deviation: 142, CV(%): 5.6</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

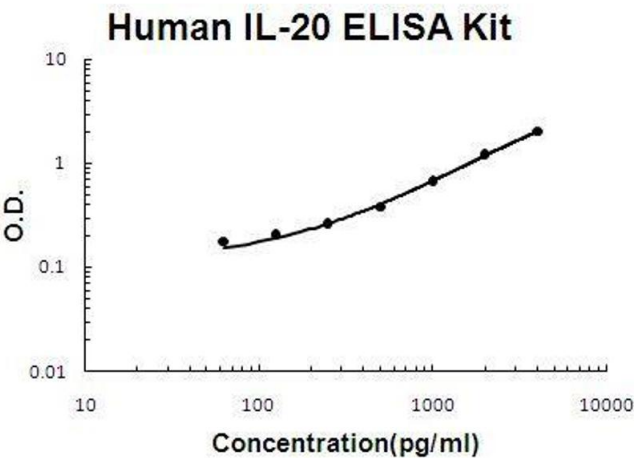
Product cited in: Zhou, Jin, Jia, Zhang, Li, Liu, Liu: "Baicalin attenuates brain edema in a rat model of intracerebral hemorrhage." in: **Inflammation**, Vol. 37, Issue 1, pp. 107-15, (2014) ([PubMed](#)).

Liang, Liu, Chen, Sun: "Antitumor activity of the protein and small molecule component fractions from *Agrocybe aegerita* through enhancement of cytokine production." in: **Journal of medicinal food**, Vol. 17, Issue 4, pp. 439-46, (2014) ([PubMed](#)).

Xia, Du, Wu, Chen, Zhou, Tang, Tang, Liu, Yang, Ruan, Xu, Zuo, Zhang: "E-selectin rs5361 and FCGR2A rs1801274 variants were associated with increased risk of gastric cancer in a Chinese population." in: **Molecular carcinogenesis**, Vol. 51, Issue 8, pp. 597-607, (2012) ([PubMed](#)).

Li, Li, Li, Deng, Tian, Jiang, Wang, Wang: "A rat model for stable chronic obstructive pulmonary disease induced by cigarette smoke inhalation and repetitive bacterial infection." in: **Biological & pharmaceutical bulletin**, Vol. 35, Issue 10, pp. 1752-60, (2012) ([PubMed](#)).

Images



**ELISA**

**Image 1.** Human IL-20 PicoKine ELISA Kit standard curve