

## Datasheet for ABIN7318660 IL-20 Protein



Overview

Quantity:	100 µg
Target:	IL-20 (IL20)
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Product Details	
Purpose:	Recombinant Human Interleukin-20/IL-20 Protein
Sequence:	Leu25-Glu176
Characteristics:	Recombinant Human Interleukin-20 is produced by our E.coli expression system and the target gene encoding Leu25-Glu176 is expressed.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.

## Target Details

Target:	IL-20 (IL20)
Alternative Name:	Interleukin-20/IL-20 (IL20 Products)
Background:	Background: Interleukin-20 (IL-20) is a member of the IL-10 family of regulatory cytokines that includes IL-10, IL-19, IL-20, IL-22, IL-24 and IL-26. Members of this family share partial
	homology in their amino acid sequences but they are dissimilar in their biological functions. IL- 20 exhibits approximately 28 $\%$ amino acid identity with IL 10 and 76 $\%$ amino acid identity with

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	mouse IL-20. There are two heterodimeric receptor complexes for IL-20. The first is composed
	of IL-20 Ra and IL-20 Rβ. The second is composed of IL-22 R and IL-20 Rβ. Whereas the IL-22
	R/IL-20 R $\beta$ complex is shared with IL-24, the IL-20 R $\alpha$ /IL-20 R $\beta$ complex is shared with both IL-
	19 and IL-24. IL-20 has been shown to initiate transduction cascades involving STAT3 and
	stimulates the induction of pro-inflammatory genes including TNF- $\alpha$ and MCP-1. Initial
	functional studies using transgenic mice suggest that IL-20 has the ability to regulate skin
	development. The over-expression of both human and mouse forms of IL-20 results in
	keratinocyte hyper-proliferation, abnormal epidermal differentiation, and neonatal lethality. In
	humans, IL-20 and its receptors are up-regulated in psoriatic skin, and polymorphisms in the IL-
	20 gene have been associated with plaque-type psoriasis. IL-20 may also have a role in
	hematopoiesis. It enhances the proliferation of multi-potential progenitors in vitro and increases
	their numbers and cell cycling status in IL-20 transgenic mice. IL-20 is also shown to suppress
	COX-2 and PGE2 and acts as an inhibitor of angiogenesis in model systems.
	Synonym: Interleukin-20, IL-20, Cytokine Zcyto10, IL20, ZCYTO10
Molecular Weight:	20.1 kDa
UniProt:	Q9NYY1

Pathways:	Protein targeting to Nucleus

## Application Details

Restrictions:

For Research Use only

## Handling

Format:	Lyophilized
Reconstitution:	Please refer to the printed manual for detailed information.
Buffer:	Lyophilized from a 0.2 $\mu m$ filtered solution of 20 mM PB, 150 mM NaCl, pH 7.4.
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C.
	Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted
	samples are stable at < -20°C for 3 months.

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