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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

Target Details

mouse IL-20. There are two heterodimeric receptor complexes for IL-20. The first is composed of IL-20 Ra and IL-20 R β . The second is composed of IL-22 R and IL-20 R β . Whereas the IL-22 R/IL-20 R β complex is shared with IL-24, the IL-20 Ra/IL-20 R β 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- α 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 μ 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.