

IL-20R beta Protein, Cynomolgus (HEK293, Fc)

Cat. No.:	HY-P77421
Synonyms:	Interleukin-20 receptor subunit beta; IL-20R-beta; IL-20RB; FNDC6; IL-20R2; DIRS1
Species:	Cynomolgus
Source:	HEK293
Accession:	G7P041 (D30-A230)
Gene ID:	102119675
Molecular Weight:	Approximately 49.2 kDa.

PROPERTIES

Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	<p>IL-20R beta (IL-12RB), also known as a beta subunit of IL-20 receptor (IL-20RB), belongs to the type II cytokine receptor family. IL-20R beta is widely expressed with highest levels in skin and testis and highly expressed in psoriatic skin^[1]. IL-20R beta forms functional heterodimers with different subunit protein. IL-20R beta serves as the receptor for IL-19, IL-20 and IL-24 by dimerizing with IL20RA, however serves as the receptor for IL-20 and IL-24 by dimerizing with IL-22RA1^[2]. IL-20RB/IL-20RA and IL-20RB/IL-22RA1, act function by binding IL-20, and then stimulates a signal transduction pathway through STAT3 in a keratinocyte cell line^[1]. However, the expression of both IL-20RB/IL-20RA is found to be upregulated in psoriatic skin lesions on keratinocytes^[3]. IL-20RB/IL-20RA and IL-20RB/IL-22RA1 bind to IL-24, induce rapid activation of Stat-1 and Stat-3 transcription factors, which appear to play a role in cell survival and proliferation^[4].</p>
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REFERENCES

[1]. Blumberg H, et al. Interleukin 20: discovery, receptor identification, and role in epidermal function. Cell. 2001 Jan 12;104(1):9-19.

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- [2]. Wegenka UM. IL-20: biological functions mediated through two types of receptor complexes. Cytokine Growth Factor Rev. 2010 Oct;21(5):353-63.
- [3]. Sheikh F, et al. Cutting edge: IL-26 signals through a novel receptor complex composed of IL-20 receptor 1 and IL-10 receptor 2. J Immunol. 2004 Feb 15;172(4):2006-10.
- [4]. Wang M, et al. Interleukin-24 and its receptors. Immunology. 2005 Feb;114(2):166-70.
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Caution: Product has not been fully validated for medical applications. For research use only.

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