

## IL-20R alpha Protein, Mouse (HEK293, Fc)

Cat. No.:	HY-P77965
Synonyms:	IL-20R-alpha; IL-20RA; CRF2-8; IL-20R1; ZcytoR7; FLJ40993
Species:	Mouse
Source:	HEK293
Accession:	Q6PHB0 (V33-K253)
Gene ID:	237313
Molecular Weight:	65-70 kDa

### PROPERTIES

Biological Activity	Mouse IL-20RA, hFc Tag captured on CM5 Chip via Protein A can bind Human IL-20, His Tag with an affinity constant of 13.93 $\mu$ M as determined in SPR assay (Biacore T200).
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.22 $\mu$ m filtered solution of PBS, pH 7.4. Normally 5% trehalose is added as protectant before lyophilization.
Endotoxin Level	<1 EU/ $\mu$ g, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 $\mu$ g/mL in ddH <sub>2</sub> 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 alpha, also known as a alpha subunit of IL-20 receptor (IL-20RA), belongs to the type II cytokine receptor family<sup>[1]</sup>. IL-20R alpha is widely expressed with highest levels in skin and testis and high levels in brain<sup>[2]</sup>. IL20RA and IL20RB is found to be upregulated in psoriatic skin lesions on keratinocytes<sup>[3]</sup>. IL-20R alpha forms functional heterodimers with different subunit protein. IL-20R alpha serves as the receptor for IL-19, IL-20 and IL-24 by dimerizing with IL20RB, however serves as the receptor for IL-26 by dimerizing with IL-10RB. IL-20R alpha transduces ligand-binding at least in part through STAT3 activation, and plays an important role in epidermal function and psoriasis<sup>[4]</sup>.</p> <p>The sequence of amino acids in IL-12 beta proteins of mouse is very different from human (64.64%).</p>
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### REFERENCES

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- [1]. Wang F, et al. Prominent production of IL-20 by CD68+/CD11c+ myeloid-derived cells in psoriasis: Gene regulation and cellular effects. J Invest Dermatol. 2006 Jul;126(7):1590-9.
- [2]. Blumberg H, et al. Interleukin 20: discovery, receptor identification, and role in epidermal function. Cell. 2001 Jan 12;104(1):9-19.
- [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 F, et al. Prominent production of IL-20 by CD68+/CD11c+ myeloid-derived cells in psoriasis: Gene regulation and cellular effects. J Invest Dermatol. 2006 Jul;126(7):1590-9.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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