

CD131 Protein, Human (HEK293, His)

Cat. No.:	HY-P75608
Synonyms:	Cytokine receptor common subunit beta; CDw131; CD131; CSF2RB; IL3RB; IL5RB
Species:	Human
Source:	HEK293
Accession:	P32927 (W17-W443)
Gene ID:	1439
Molecular Weight:	50-55 kDa

PROPERTIES

Appearance	Solution
Formulation	Supplied as a 0.2 µm filtered solution of PBS, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	N/A.
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.

DESCRIPTION

Background	CD131, a cell surface receptor, plays a pivotal role in immune response by controlling the production and differentiation of hematopoietic progenitor cells into lineage-restricted cells. Through the formation of a heterodimeric receptor with various partners such as IL3RA, IL5RA, or CSF2RA, CD131 engages in multiple signaling pathways, including interleukin-3, interleukin-5, and granulocyte-macrophage colony-stimulating factor/CSF2 pathways. In unstimulated conditions, CD131 constitutively interacts with JAK1, and ligand binding leads to JAK1 stimulation, triggering the activation of the JAK-STAT pathway. CD131 forms a heterodimer composed of an alpha and a beta subunit, with the beta subunit being common to the IL3, IL5, and GM-CSF receptors. The GM-CSF receptor complex, involved in signaling, is a dodecamer consisting of two head-to-head hexamers of two alpha, two beta, and two ligand subunits. CD131 further interacts with TMEM102, FCER1G, LYN, and JAK1, contributing to its intricate role in cellular responses.
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Caution: Product has not been fully validated for medical applications. For research use only.

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