Best Tools for immunology Research

CD131 (PN0304) Nb-FC recombinant antibody

Catalog No :	YA0065
Reactivity :	Human
Applications :	ELISA
Target :	CD131
Gene Name :	CSF2RB IL3RB IL5RB
Protein Name :	Cytokine receptor common subunit beta (CDw131) (GM-CSF/IL-3/IL-5 receptor common beta subunit) (CD antigen CD131)
Human Gene Id :	1439
Human Swiss Prot No :	P32927
Immunogen :	Purified recombinant Human CD131
Specificity :	This recombinant monoclonal antibody can detects endogenous levels of CD131 protein.
Formulation :	Phosphate-buffered solution
Source :	Camel, chimeric fusion of Nanobody (VHH) and mouse IgG1 Fc domain , recombinantly produced from 293F cell
Dilution :	ELISA 1:5000-100000
Purification :	Recombinant Expression and Affinity purified
Concentration :	Please check the information on the tube
Storage Stability :	-15°C to -25°C/1 year(Avoid freeze / thaw cycles)
Background :	CD131, also known as the IL-3R common β subunit , is a 95-120 kD type I transmembrane glycoprotein and belongs to the Ig superfamily. The common β subunit associates with the specific α subunits of IL-3 receptor, IL-5 receptor and

GM-CSF receptor to form high affinity receptors for these cytokines. These cytokine receptors are expressed by neutrophils, eosinophils, monocytes, endothelial cells, fibroblasts and hematopoietic progenitor cells and play a crucial role in growth/activation of eosinophils and in the inflammatory response. The 1C1 antibody is a non-blocking antibody.

Function :

Cell surface receptor that plays a role in immune response and controls the production and differentiation of hematopoietic progenitor cells into lineage-restricted cells. Acts by forming an heterodimeric receptor through interaction with different partners such as IL3RA, IL5RA or CSF2RA (PubMed:1495999). In turn, participates in various signaling pathways including interleukin-3, interleukin-5 and granulocyte-macrophage colony-stimulating factor/CSF2 pathways. In unstimulated conditions, interacts constitutively with JAK1 and ligand binding leads to JAK1 stimulation and subsequent activation of the JAK-STAT pathway (PubMed:9516124).

Subcellular Location :

Membrane; Single-pass type I membrane protein.

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