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Anti-CSF2Rb / CD131 Reference Antibody (CSL311)

Recombinant Antibody
Catalog # APR10062

Product Information

Application	FC, Kinetics, Animal Model
Primary Accession	P32927
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG4
Calculated MW	97336

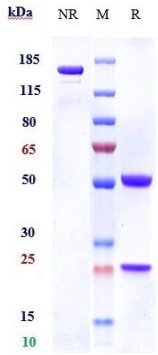
Additional Information

Target/Specificity	CSF2Rb / CD131
Endotoxin	
Conjugation	Unconjugated
Expression system	CHO Cell
Format	Purified monoclonal antibody supplied in PBS, pH6.0, without preservative.This antibody is purified through a protein A column.

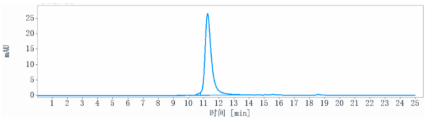
Protein Information

Name	CSF2RB
Synonyms	IL3RB, IL5RB
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).
Cellular Location	Membrane; Single-pass type I membrane protein.

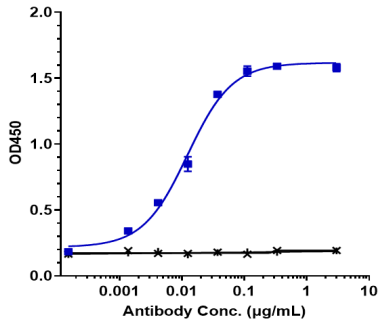
Images



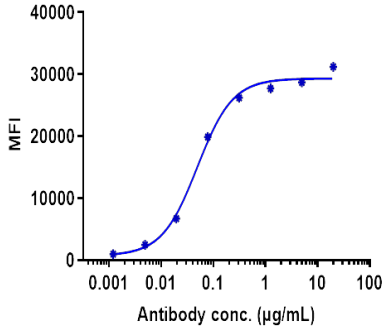
Anti-CSF2Rb / CD131 Reference Antibody (CSL311) on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95%



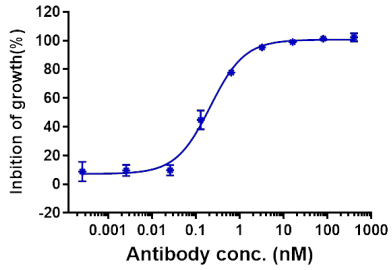
The purity of Anti-CSF2Rb / CD131 Reference Antibody (CSL311)is more than 98.34% ,determined by SEC-HPLC.



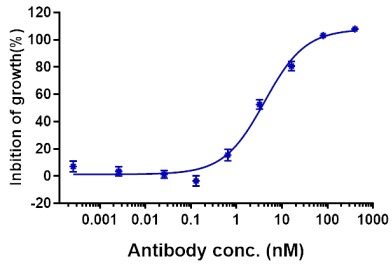
Immobilized human CSF2RB His at 2 μg/mL can bind Anti-CSF2Rb / CD131 Reference Antibody (CSL311),EC50=0.0122 μg/mL



Human CSF2RB HEK293 cells were stained with Anti-CSF2Rb / CD131 Reference Antibody (CSL311) and negative control protein respectively, washed and then followed by PE and analyzed with FACS, EC114=0.049 μg/mL



IL-3-mediated proliferation of TF-1 can be completely blocked by antibodies with an IC50 of 0.2109 nM.



GM-CSF-mediated proliferation of TF-1 can be completely blocked by antibodies with an IC50 of 4.105 nM.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.