

Anti-CSF2Rb / CD131 Reference Antibody (CSL311)
Recombinant Antibody
Catalog # APR10062

Specification

Anti-CSF2Rb / CD131 Reference Antibody (CSL311) - Product Information

Application	FC, Kinetics, Animal Model
Primary Accession	P32927
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG4
Calculated MW	144.66 KDa

Anti-CSF2Rb / CD131 Reference Antibody (CSL311) - Additional Information

Target/Specificity
CSF2Rb / CD131

Endotoxin
< 0.001EU/ µg,determined by LAL method.

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.

Anti-CSF2Rb / CD131 Reference Antibody (CSL311) - 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).

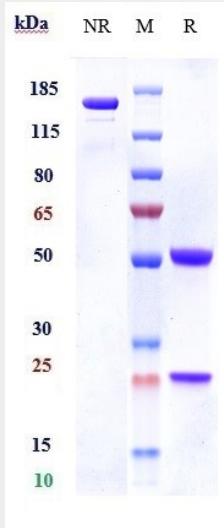
Cellular Location

Membrane; Single-pass type I membrane protein.

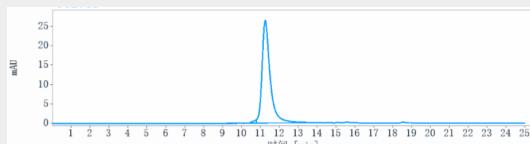
Anti-CSF2Rb / CD131 Reference Antibody (CSL311) - Protocols

Provided below are standard protocols that you may find useful for product applications.

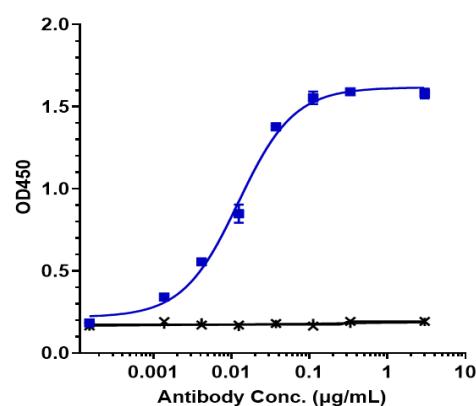
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Anti-CSF2Rb / CD131 Reference Antibody (CSL311) - Images

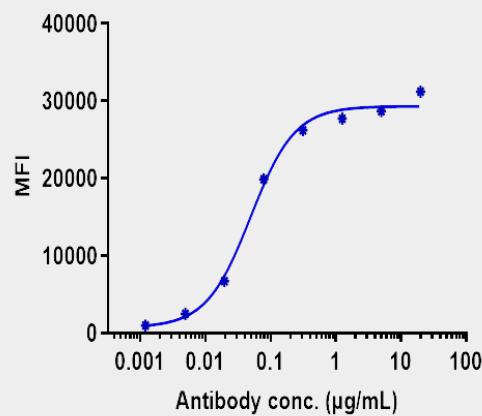
Anti-CSF2Rb / CD131 Reference Antibody (CSL311) on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95%



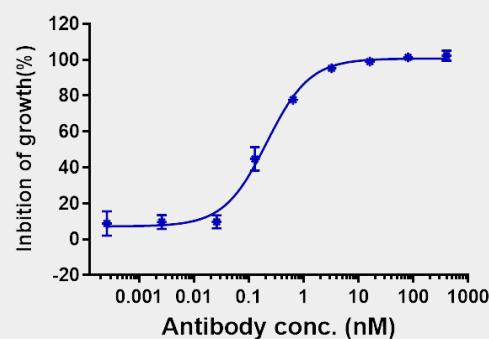
The purity of Anti-CSF2Rb / CD131 Reference Antibody (CSL311) is more than 98.34% ,determined by SEC-HPLC.



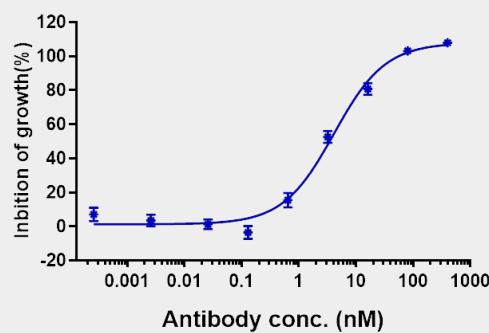
Immobilized human CSF2RB His at 2 µg/mL can bind Anti-CSF2Rb / CD131 Reference Antibody (CSL311) EC₅₀=0.0122 µg/mL



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, EC₁₄=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.