

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

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

Application	FC, Kinetics, Animal Model
Primary Accession	<a href="#">P32927</a>
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:<a href="http://www.uniprot.org/citations/1495999" target="\_blank">1495999</a>). 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:<a href="http://www.uniprot.org/citations/9516124" target="\_blank">9516124</a>).

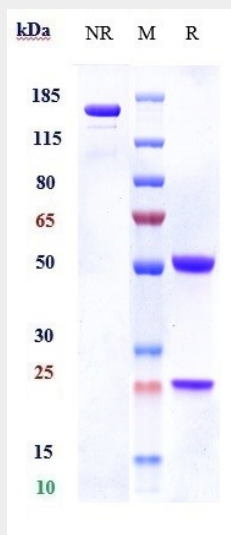
**Cellular Location**

Membrane; Single-pass type I membrane protein.

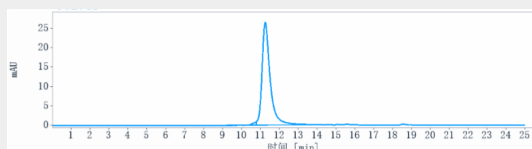
**Anti-CSF2Rb / CD131 Reference Antibody (CSL311) - Protocols**

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

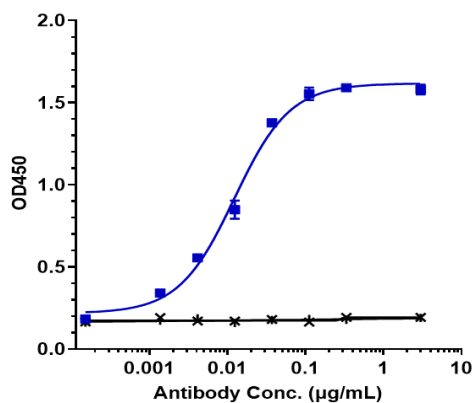
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

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

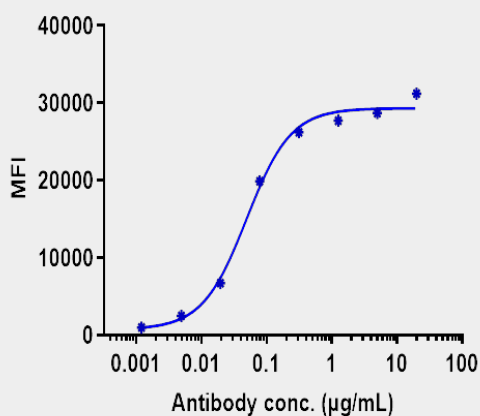
Anti-CSF2Rb / CD131 Reference Antibody (CSL311) on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95%



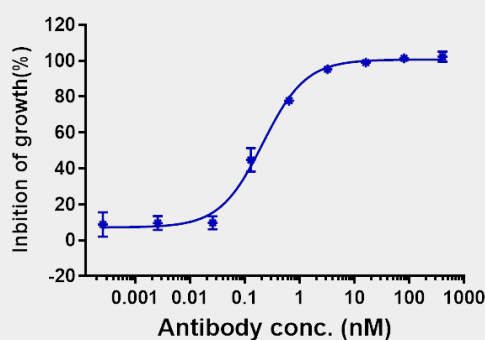
The purity of Anti-CSF2Rb / CD131 Reference Antibody (CSL311) is more than 98.34% ,determined by SEC-HPLC.



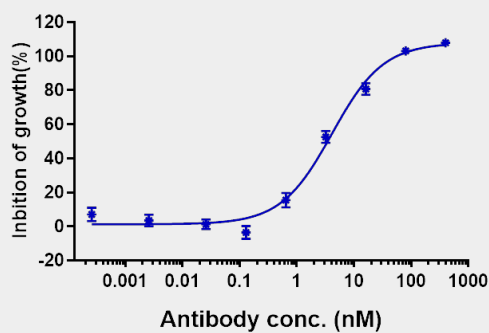
Immobilized human CSF2RB His at 2 µg/mL can bind Anti-CSF2Rb / CD131 Reference Antibody (CSL311)  $EC_{50}=0.0122$  µg/mL



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,  $EC_{114}=0.049$  µg/mL



IL-3-mediated proliferation of TF-1 can be completely blocked by antibodies with an  $IC_{50}$  of 0.2109 nM.



GM-CSF-mediated proliferation of TF-1 can be completely blocked by antibodies with an IC<sub>50</sub> of 4.105 nM.