

## Rabbit anti-Human CD131 Polyclonal Antibody | anti-CSF2RB antibody

Anti-CD131 Antibody, Rabbit Polyclonal

|                               |                       |                            |                                                           |
|-------------------------------|-----------------------|----------------------------|-----------------------------------------------------------|
| CATALOG #<br><b>AAA257754</b> | HOST<br><b>Rabbit</b> | REACTIVITY<br><b>Human</b> | APPLICATIONS<br><b>Immunohistochemistry, Western Blot</b> |
|-------------------------------|-----------------------|----------------------------|-----------------------------------------------------------|

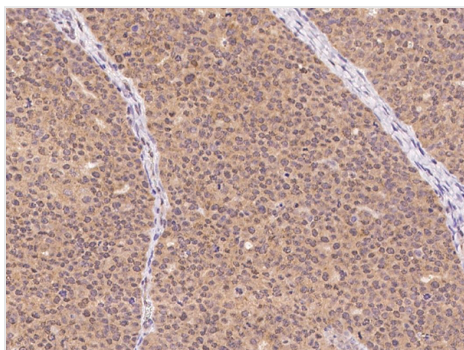
### PRODUCT SYNONYMS

CD131; Polyclonal Antibody; Anti-CD131 Antibody; Rabbit Polyclonal; CD131 Antibody; Rabbit PAb; Antigen Affinity Purified; Anti-CDw131 Antibody; Anti-IL3RB Antibody; Anti-IL5RB Antibody; Anti-SMDP5 Antibody; colony stimulating factor 2 receptor; beta; low-affinity (granulocyte-macrophage); anti-CSF2RB antibody

### PRODUCT SPECIFICATIONS

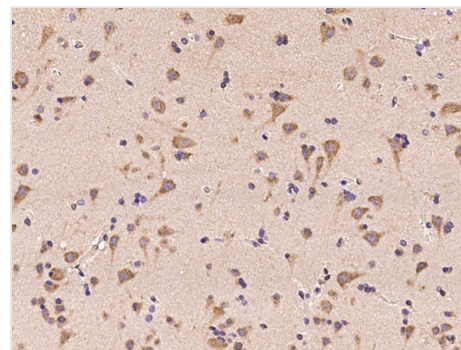
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|--------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                             | Rabbit                                                                                                                                                                                                                                                                                                                                                                                             |
| Reactivity                                       | Human                                                                                                                                                                                                                                                                                                                                                                                              |
| Clonality                                        | Polyclonal                                                                                                                                                                                                                                                                                                                                                                                         |
| Isotype                                          | Rabbit IgG                                                                                                                                                                                                                                                                                                                                                                                         |
| Specificity                                      | Human CD131                                                                                                                                                                                                                                                                                                                                                                                        |
| Purity/Purification                              | Protein A & Antigen Affinity                                                                                                                                                                                                                                                                                                                                                                       |
| Form/Format                                      | Liquid. PBS, pH7.0 with 0.03% Proclin300                                                                                                                                                                                                                                                                                                                                                           |
| Applicable Applications for anti-CSF2RB antibody | IHC (Immunohistochemistry), WB (Western Blot)                                                                                                                                                                                                                                                                                                                                                      |
| Immunogen                                        | E Coli-derived Human CD131 fragment                                                                                                                                                                                                                                                                                                                                                                |
| Conjugation                                      | Unconjugated                                                                                                                                                                                                                                                                                                                                                                                       |
| Preparation                                      | Produced in rabbits immunized with E Coli-derived Human CD131 fragment, and purified by antigen affinity chromatography.                                                                                                                                                                                                                                                                           |
| Preparation and Storage                          | This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Avoid repeated freeze-thaw cycles.<br>This antibody is shipped as liquid solution at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. |

### IMAGES



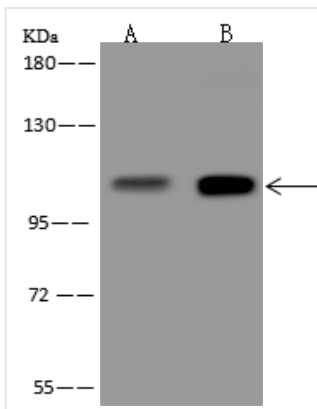
**IHC (Immunohistochemistry)**

Immunochemical staining of human CD131 in human ovarian cancer with rabbit polyclonal antibody at 1:200 dilution, formalin-fixed paraffin embedded sections.



**IHC (Immunohistochemistry)**

Immunochemical staining of human CD131 in human brain with rabbit polyclonal antibody at 1:200 dilution, formalin-fixed paraffin embedded sections.



#### WB (Western Blot)

Anti-CSF2RB rabbit polyclonal antibody at 1:500 dilution  
 Lane A: HL60 Whole Cell Lysate  
 Lane B: TF-1 Whole Cell Lysate  
 Lysates/proteins at 30 ug per lane. Secondary Goat Anti-Rabbit IgG (H+L)/HRP at 1/10000 dilution. Developed using the ECL technique. Performed under reducing conditions. Predicted band size: 97 kDa Observed band size: 110 kDa

### ADDITIONAL INFORMATION

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|-------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Related Product Information for anti-CSF2RB antibody</b> | <p>Background: Colony stimulating factor 2 receptor, beta, low-affinity (CSF2RB) also known as CD131 antigen (CD131), cytokine receptor common subunit beta, GM-CSF/IL-3/IL-5 receptor common beta-chain, interleukin 3 receptor/granulocyte-macrophage colony stimulating factor 3 receptor, beta (IL3RB), is the common beta chain of the high affinity receptor for IL-3, IL-5 and CSF. Defects in this protein have been reported to be associated with protein alveolar proteinosis (PAP). CD131 belongs to the type I cytokine receptor family. The cluster of differentiation (cluster of designation)(often abbreviated as CD) is a protocol used for the identification and investigation of cell surface molecules present on white blood cells initially but found in almost any kind of cell of the body, providing targets for immunophenotyping of cells. Defects in CD131/CSF2RB are the cause of pulmonary surfactant metabolism dysfunction type 5 (SMDP5). SMDP5 is a rare lung disorder due to impaired surfactant homeostasis. It is characterized by alveolar filling with floccular material that stains positive using the periodic acid-Schiff method and is derived from surfactant phospholipids and protein components. Excessive lipoproteins accumulation in the alveoli results in severe respiratory distress.</p> |
| <b>References</b>                                           | <p>Selleri S, et al. (2008) GM-CSF/IL-3/IL-5 receptor common beta chain (CD131) expression as a biomarker of antigen-stimulated CD8+ T cells. J Transl Med. 6:17. Woodcock, et al. (1994) Three residues in the common beta chain of the human GM-CSF, IL-3 and IL-5 receptors are essential for GM-CSF and IL-5 but not IL-3 high affinity binding and interact with Glu21 of GM-CSF. EMBO J. 13(21): 5176-85. Dirksen U, et al. (1997) Human pulmonary alveolar proteinosis associated with a defect in GM-CSF/IL-3/IL-5 receptor common beta chain expression. J Clin Invest. 100(9): 2211-7.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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