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# Phospho-IL3R(Y766) Antibody

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP3133a

## Product Information

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| **Application** | WB, DB, E |
| **Primary Accession** | P32927 |
| **Reactivity** | Human |
| **Host** | Rabbit |
| **Clonality** | Polyclonal |
| **Isotype** | Rabbit IgG |
| **Clone Names** | RB06992 |
| **Calculated MW** | 97336 |

## Additional Information

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| **Gene ID** | 1439 |
| **Other Names** | Cytokine receptor common subunit beta, CDw131, GM-CSF/IL-3/IL-5 receptor common beta subunit, CD131, CSF2RB, IL3RB, IL5RB |
| **Target/Specificity** | This IL3R Antibody is generated from rabbits immunized with a KLH conjugated synthetic phosphopeptide corresponding to amino acid residues surrounding Y766 of human IL3R. |
| **Dilution** | WB~~1:1000 DB~~1:500 E~~Use at an assay dependent concentration. |
| **Format** | Purified polyclonal antibody supplied in PBS with 0.05% (V/V) Proclin 300. This antibody is purified through a protein A column, followed by peptide affinity purification. |
| **Storage** | Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles. |
| **Precautions** | Phospho-IL3R(Y766) Antibody is for research use only and not for use in diagnostic or therapeutic procedures. |

## Protein Information

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| **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.

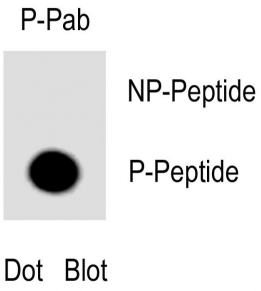
## Background

IL3R (also known as CSF2RB) is a common beta chain of the high affinity receptor for IL-3, IL-5 and GM-CSF. Defective IL3R has been reported to be associated with protein alveolar proteinosis (PAP). PAP is an autosomal recessive fatal respiratory disease.

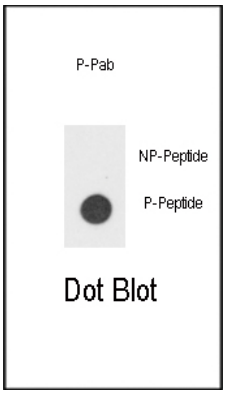
## References


Murphy, J.M., et al., J. Biol. Chem. 279(25):26500-26508 (2004).
McClure, B.J., et al., Blood 101(4):1308-1315 (2003).
Scibek, J.J., et al., Anal. Biochem. 307(2):258-265 (2002).
Blake, T.J., et al., J. Leukoc. Biol. 72(6):1246-1255 (2002).
Evans, C.A., et al., Blood 100(9):3164-3174 (2002).


## Images




Dot blot analysis of Phospho-IL3R(Y766) Antibody (Cat. AP3133a) on nitrocellulose membrane. 50ng of Phospho-peptide or Non Phospho-peptide per dot were adsorbed. Antobodies working concentration was 0. 5ug per ml




Dot blot analysis of anti-hIL3R-pY766 Phospho-specific Pab (Cat. #AP3133a) on nitrocellulose membrane. 50ng of Phospho-peptide or Non Phospho-peptide per dot were adsorbed. Antibody working concentrations are 0.5ug per ml.