

**Phospho-IL3R-Y593 Antibody Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP3132a****Specification**

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**Phospho-IL3R-Y593 Antibody Blocking Peptide - Product Information**Primary Accession [P32927](#)**Phospho-IL3R-Y593 Antibody Blocking Peptide - Additional Information****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**

The synthetic peptide sequence used to generate the antibody [AP3132a](/product/products/AP3132a) was selected from the region of human Phospho-IL3R-Y593. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**Phospho-IL3R-Y593 Antibody Blocking Peptide - 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 a heterodimeric receptor through interaction with different partners such as IL3RA, IL5RA or CSF2RA (PubMed: [1495999](http://www.uniprot.org/citations/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](http://www.uniprot.org/citations/9516124)).

**Cellular Location**

Membrane; Single-pass type I membrane protein.

**Phospho-IL3R-Y593 Antibody Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

**Phospho-IL3R-Y593 Antibody Blocking Peptide - Images****Phospho-IL3R-Y593 Antibody Blocking Peptide - 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.

**Phospho-IL3R-Y593 Antibody Blocking Peptide - 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).