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Phospho-IL3R(Y766) Antibody Blocking peptide
Synthetic peptide
Catalog # BP3133a

Specification

Phospho-IL3R(Y766) Antibody Blocking peptide - Product Information

Primary Accession P32927

Phospho-IL3R(Y766) 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 AP3133a was selected from the region of human Phospho-IL3R-Y766. 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(Y766) 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 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).

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Cellular Location
Membrane; Single-pass type I membrane protein.

Phospho-IL3R(Y766) Antibody Blocking peptide - Protocols

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

- Blocking Peptides

Phospho-IL3R(Y766) Antibody Blocking peptide - Images

Phospho-IL3R(Y766) 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(Y766) 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).