

IL17RC Antibody (N-term) Blocking Peptide
Synthetic peptide
Catalog # BP18560a**Specification**

IL17RC Antibody (N-term) Blocking Peptide - Product InformationPrimary Accession [Q8NAC3](#)**IL17RC Antibody (N-term) Blocking Peptide - Additional Information****Gene ID** 84818**Other Names**

Interleukin-17 receptor C, IL-17 receptor C, IL-17RC, Interleukin-17 receptor homolog, IL17Rhom, Interleukin-17 receptor-like protein, IL-17RL, ZcytoR14, IL17RC

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.

IL17RC Antibody (N-term) Blocking Peptide - Protein Information**Name** IL17RC**Function**

Receptor for IL17A and IL17F, major effector cytokines of innate and adaptive immune system involved in antimicrobial host defense and maintenance of tissue integrity (By similarity). Receptor for IL17A and IL17F, major effector cytokines of innate and adaptive immune system involved in antimicrobial host defense and maintenance of tissue integrity. Receptor for IL17A and IL17F homodimers as part of a heterodimeric complex with IL17RA (PubMed:16785495). Receptor for the heterodimer formed by IL17A and IL17B as part of a heterodimeric complex with IL17RA (PubMed:18684971). Has also been shown to be the cognate receptor for IL17F and to bind IL17A with high affinity without the need for IL17RA (PubMed:17911633). Upon binding of IL17F homodimer triggers downstream activation of TRAF6 and NF-kappa-B signaling pathway (PubMed:16785495, PubMed:32187518). Induces transcriptional activation of IL33, a potent cytokine that stimulates group 2 innate lymphoid cells and adaptive T-helper 2 cells involved in pulmonary allergic response to fungi (By similarity). Promotes sympathetic innervation of peripheral organs by coordinating the communication

between gamma-delta T cells and parenchymal cells. Stimulates sympathetic innervation of thermogenic adipose tissue by driving TGFB1 expression (By similarity). Binding of IL17A-IL17F to IL17RA-IL17RC heterodimeric receptor complex triggers homotypic interaction of IL17RA and IL17RC chains with TRAF3IP2 adapter through SEFIR domains. This leads to downstream TRAF6-mediated activation of NF-kappa-B and MAPkinase pathways ultimately resulting in transcriptional activation of cytokines, chemokines, antimicrobial peptides and matrix metalloproteinases, with potential strong immune inflammation (PubMed:18684971, PubMed:17911633). Primarily induces neutrophil activation and recruitment at infection and inflammatory sites (By similarity). Stimulates the production of antimicrobial beta-defensins DEFB1, DEFB103A, and DEFB104A by mucosal epithelial cells, limiting the entry of microbes through the epithelial barriers (By similarity).

Cellular Location

Cell membrane; Single-pass type I membrane protein. Note=Soluble isoforms may be produced

Tissue Location

Expressed in prostate, skeletal muscle, kidney and placenta (at protein level) (PubMed:11706037). Expressed in brain, cartilage, colon, heart, intestine, kidney, liver, lung, muscle, placenta, and prostate (PubMed:11706037). Also detected in thyroid, trachea and adrenal gland (PubMed:17911633). Low expression in thymus and leukocytes (PubMed:11706037).

IL17RC Antibody (N-term) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

IL17RC Antibody (N-term) Blocking Peptide - Images

IL17RC Antibody (N-term) Blocking Peptide - Background

This gene encodes a single-pass transmembrane protein that shares limited similarity with the interleukin-17 receptor. Multiple alternatively spliced transcript variants encoding different isoforms have been detected for this gene, but the full-length nature of only three have been determined to date.

IL17RC Antibody (N-term) Blocking Peptide - References

Pickens, S.R., et al. J. Immunol. 184(6):3233-3241(2010) Wright, J.F., et al. J. Immunol. 181(4):2799-2805(2008) Zrioual, S., et al. J. Immunol. 180(1):655-663(2008) Kuestner, R.E., et al. J. Immunol. 179(8):5462-5473(2007) Haudenschild, D.R., et al. Prostate 66(12):1268-1274(2006)