

Recombinant Mouse Il17rc Protein, Myc/DDK-tagged

Cat. No. Il17rc-3501M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length interleukin 17 receptor C (Il17rc), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	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. Receptor for the heterodimer formed by IL17A and IL17B as part of a heterodimeric complex with IL17RA. Has also been shown to be the cognate receptor for IL17F and to bind IL17A with high affinity without the need for IL17RA. Upon binding of IL17F homodimer triggers downstream activation of TRAF6 and NF-kappa-B signaling pathway. 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. 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. 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

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and matrix metalloproteinases, with potential strong immune inflammation. Primarily induces neutrophil activation and recruitment at infection and inflammatory sites. Stimulates the production of antimicrobial beta-defensins DEFB1, DEFB103A, and DEFB104A by mucosal epithelial cells, limiting the entry of microbes through the epithelial barriers.

Molecular Mass	74.8 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade after receiving vials.
Concentration	>50 µg/mL as determined by microplate BCA method
Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name	Il17rc interleukin 17 receptor C [<i>Mus musculus</i> (house mouse)]
Official Symbol	Il17rc
Synonyms	IL17RC; interleukin 17 receptor C; interleukin-17 receptor C; IL-17RL; zcytoR14; IL-17 receptor C; interleukin-17 receptor-like protein; Il17rl; IL-17RC; IL17-RC; IL17-RL; 1110025H02Rik
Gene ID	171095

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mRNA Refseq	NM_134159
Protein Refseq	NP_598920
UniProt ID	Q8K4C2

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