

Human IL-17RC Alexa Fluor® 750-conjugated Antibody

Antigen Affinity-purified Polyclonal Goat IgG Catalog Number: AF2269S

100 µg

DESCRIPTION	
Species Reactivity	Human
Specificity	Detects human IL-17 RC in direct ELISAs and Western blots. In direct ELISAs, approximately 20% cross-reactivity with recombinant mouse IL-17 RC and 5% cross-reactivity with recombinant human (rh) IL-17 R, rhIL-17 RD, and rhIL-17B
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse myeloma cell line NS0-derived recombinant human IL-17 RC Leu21-Ala454 Accession # NP_116121
Conjugate	Alexa Fluor 750 Excitation Wavelength: 749 nm Emission Wavelength: 775 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide
	*Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Shee (SDS) for additional information and handling instructions.

APPLICATIONS			
Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.			
CyTOF-ready	Optimal dilution of this antibody should be experimentally determined.		
Western Blot	Optimal dilution of this antibody should be experimentally determined.		
Flow Cytometry	Optimal dilution of this antibody should be experimentally determined.		

PREPARATION AND STORAGE	
Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

IL-17 receptor C (IL-17 RC; also known as IL-17 RL and IL-17 Rhom) is an 85-110 kDa member of the IL-17 receptor family. This is one of five families that currently comprise the cytokine receptor superfamily (1-6). At this time, there are five members within the IL-17 receptor family, and these are termed IL-17 RA, B, C, D, and E. Not all receptors appear to bind known members of the IL-17 cytokine family. To date, IL-17 RA is reported to bind IL-17(A), while IL-17 RB is reported to bind IL-17B and IL-17E (2, 4). Human IL-17 RC is a type I transmembrane glycoprotein that is expressed on a variety of nonhematopoietic cell types. These include endothelial cells (6, 7), chondrocytes and osteoblasts (8), breast and prostatic epithelium (6), and fibroblasts, plus renal tubular epithelium and skeletal muscle cells (8, 9). Full-length IL-17 RC is synthesized as a 791 amino acid (aa) precursor (10, 11). It contains a 20 aa signal sequence, a 518 aa extracellular domain (ECD) (aa 21-538), a 21 aa transmembrane segment, and a 232 aa cytoplasmic region. Although IL-17 RA has two fibrinogen-like regions in its ECD that contribute to its function, no such architecture has been identified in the ECD of IL-17 RC (12). Based on studies looking at exon deletions, a key ligand-binding site would appear to exist over aa 425-441 (13). The gene for human IL-17 RC contains 19 exons. It is estimated that there are over 90 alternative splice forms, with transmembrane-containing isoforms predominating (6, 14). The full-length isoform is estimated to occur approximately 10% of the time, while the three most common isoforms, as a group, occur about 50% of the time. Based on limited information, alternative splicing appears to regulate ligand specificity (13). R&D Systems IL-17 RC corresponds to IL-17 RC isoform #3, which shows deletions of aa 36-106 and 264-278 relative to the full-length form (10). Over the ECD, IL-17 RC isoform #3 is 68% aa identical to mouse IL-17 RC ECD. IL-17 RC is the cognate receptor for IL-17F, and binds IL-17A with similar affinity (13). With IL-17 RA, it forms a definitive receptor for both IL-17A and IL-17F. The stoichiometry is unclear; it may form a heterodimer with IL-17 RA, or a heterotrimer with a preexisting IL-17 RA homodimer (4, 9, 13, 15). The heteromeric nature of the receptor may be important given that the predominant form of the IL-17 cytokine is now considered to be an IL-17A:IL-17F heterodimer (4).

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