

Rabbit Anti-Human Interleukin 17 Receptor A Monoclonal Antibody

Cat. No. CAB11561RH **Lot. No.** (See product label)

SPECIFICATION

Product Overview Rabbit Monoclonal Antibody to Human Interleukin 17 Receptor A

Species Human

Source Rabbit

Antigen Description

IL17RA (Interleukin 17 receptor A), also known as IL17R and CDw217, is a ubiquitous type I membrane glycoprotein that binds with low affinity to interleukin 17A (IL17A). IL17A and its receptor play a pathogenic role in many inflammatory and autoimmune diseases such as rheumatoid arthritis. IL17A binds to a type I cell surface receptor called IL17R of which there are at least three variants IL17RA, IL17RB, and IL17RC. IL17RA is a widely expressed glycoprotein that plays a central role in inflammatory responses. IL17R mRNA exhibits a broad tissue distribution, and has been detected in virtually all cells and tissues tested. Human IL17RA is an 866 amino acid (aa) type I membrane glycoprotein with a 293 aa extracellular domain, a 21 aa carboxy-proximal transmembrane domain, and a 525 aa cytoplasmic tail. The aa sequence of human IL17RA is 69% identical to the mouse IL17R. Within the extracellular domain, human IL17RA shares 72% aa sequence identity with mouse and rat IL17RA. IL17RA associates with IL17RC to form a signaling receptor complex for IL17 and IL17F. Ligand and IL17RA ligation promotes T cell activation and the production of IL-6, G-CSF, SCF, and multiple proinflammatory chemokines.

Specificity Human IL17RA / CD217. No cross-reactivity with human cell lysate (293 cell line) in

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	WB and ELISA.
Immunogen	Recombinant human IL17RA protein
Isotype	Rabbit IgG
Cross Reactivity	012
Clone	A013
Applications	WB; ELISA
Dilution	<p>Western blot: This antibody can be used at 1 - 2 µg/mL with the appropriate secondary reagents to detect human IL17RA in WB. Using a DAB detection system, the detection limit for human IL17RA is approximately 0.125 ng/lane under non-reducing conditions and reducing conditions</p> <p>Direct ELISA: This antibody can be used at 0.1 - 0.2 µg/mL with the appropriate secondary reagents to detect human IL17RA. The detection limit for human IL17RA is approximately 0.00245 ng/well</p>
Preparation	This antibody was obtained from a rabbit immunized with purified, human cell-derived, recombinant human IL17RA (rh IL17RA ; NP_055154.3 ; Met 1 - Trp 320).
Format	0.2 µm filtered solution in PBS with 5% trehalose
Storage	This antibody can be stored at 2-8 °C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 to -70 °C. Preservative-Free. Sodium azide is recommended to avoid contamination (final concentration 0.05%-0.1%). It is toxic to cells and should be disposed of properly. Avoid repeated freeze-thaw cycles.

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GENE INFORMATION

Gene Name	IL17RA interleukin 17 receptor A [Homo sapiens]
Official Symbol	IL17RA
Synonyms	IL17RA; interleukin 17 receptor A; IL17R,interleukin 17 receptor; interleukin-17 receptor A; CD217; CDw217; hIL 17R; IL 17RA; IL-17 receptor A; IL17R; CANDF5; IL-17RA; hIL-17R; FLJ32274; FLJ36453; MGC10262;
Gene ID	23765
mRNA Refseq	NM_014339
Protein Refseq	NP_055154
MIM	605461
UniProt ID	Q96F46
Chromosome Location	22q11.1
Pathway	Cytokine-cytokine receptor interaction, organism-specific biosystem; Cytokine-cytokine receptor interaction, conserved biosystem;
Function	interleukin-17 receptor activity; receptor activity;

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