

Anti-IL7R/CD127 Picoband Antibody

Catalog # ABO12633

Product Information

Application	WB
Primary Accession	P16871
Host	Rabbit
Reactivity	Human, Rat
Clonality	Polyclonal
Format	Lyophilized
Description	Rabbit IgG polyclonal antibody for Interleukin-7 receptor subunit alpha(IL7R) detection. Tested with WB in Human;Rat.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Additional Information

Gene ID	3575
Other Names	Interleukin-7 receptor subunit alpha, IL-7 receptor subunit alpha, IL-7R subunit alpha, IL-7R-alpha, IL-7RA, CDw127, CD127, IL7R
Calculated MW	51579
Application Details	Western blot, 0.1-0.5 µg/ml, Human, Rat
Subcellular Localization	Isoform 1: Cell membrane; Single-pass type I membrane protein.
Source	Eukaryota
Protein Name	Interleukin-7 receptor subunit alpha
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human IL7R alpha (278-315aa DHKKTLEHLCKKPRKLNVSFNPEFLDCQIHRVDDIQ), different from the related mouse sequence by nine amino acids.
Purification	Immunogen affinity purified.
Cross Reactivity	No cross reactivity with other proteins
Storage	At -20 °C for one year. After reconstitution, at 4 °C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.

Protein Information

Name	IL7R
Function	Receptor for interleukin-7. Also acts as a receptor for thymic stromal lymphopoietin (TSLP).
Cellular Location	[Isoform 1]: Cell membrane; Single-pass type I membrane protein [Isoform 4]: Secreted.

Background

The interleukin-7 receptor, also known as IL7R alpha, is a protein found on the surface of cells. It is mapped to 5p13. Interleukin-7 receptor has been shown to play a critical role in the development of immune cells called lymphocytes - specifically in a process known as V(D)J recombination. This protein is also found to control the accessibility of a region of the genome that contains the T-cell receptor gamma gene, by STAT5 and histone acetylation. Knockout studies in mice suggest that blocking apoptosis is an essential function of this protein during differentiation and activation of T lymphocytes. Functional defects in this protein may be associated with the pathogenesis of severe combined immunodeficiency (SCID).

Images



Western blot analysis of IL7R alpha expression in 22RV1 whole cell lysates (lane 1). IL7R alpha at 70KD was detected using rabbit anti- IL7R alpha Antigen Affinity purified polyclonal antibody (Catalog # ABO12633) at 0.5 µg/mL. The blot was developed using chemiluminescence (ECL) method .

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