

Datasheet for ABIN233847
anti-IL17RA antibody



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2 Images

1 Publication

Overview

Quantity:	100 µg
Target:	IL17RA
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC)

Product Details

Purpose:	IL-7 Receptor Alpha Chain phospho Y449 Antibody
Immunogen:	<p>Immunogen: This affinity purified antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide corresponding to residues near Y449 of mouse IL-7 protein.</p> <p>Immunogen Type: Conjugated Peptide</p>
Isotype:	IgG
Cross-Reactivity (Details):	This antibody is specific for mouse IL-7 protein phosphorylated at Y449.
Characteristics:	<p>Synonyms: rabbit anti-IL-7 Receptor alpha pY449 antibody, rabbit anti-Interleukin-7 Receptor alpha pY449 antibody, IL7R alpha antibody, IL-7R alpha, IL 7R α, Interleukin7 Receptor, Interleukin 7 receptor alpha chain antibody, Interleukin 7 receptor α antibody</p>
Purification:	This product was affinity purified from monospecific antiserum by immunoaffinity chromatography using phospho-peptide coupled to agarose beads followed by solid phase adsorption against non-phospho-peptide.

Product Details

Sterility: Sterile filtered

Target Details

Target: IL17RA

Alternative Name: IL17R ([IL17RA Products](#))

Background: Background: This antibody is designed, produced, and validated as part of a collaboration with the National Cancer Institute (NCI) and is suitable for Cancer, Immunology and Nuclear Signaling research. Interleukin-7 is a glycoprotein involved in the regulation of lymphopoiesis. Response of cells to IL7 is dependent on the presence of the interleukin 7 receptor (IL7R), the active receptor is an alpha/gamma chain heterodimer. The gamma(c) chain, which also associates with the interleukin-2 receptor, serves primarily to activate signal transduction by the IL7R complex, while the alpha chain of IL7R determines specific signaling events through its association with cytoplasmic signaling molecules. The human and mouse sequence is nearly identical. In humans, severe combined immunodeficiency is caused by genetic defects in IL-7 receptor. The tyrosine residue at the 449 position is a critical signaling site of the intracellular domain of IL-7 receptor. This site is rapidly phosphorylated by janus kinases after the IL-7 receptor is engaged. IL-7 Receptor Alpha Chain phospho Y449 Antibody is ideal for investigators involved in Cell Signaling, Signal Transduction and Immunology research.

Gene ID: 16197, 45269152

UniProt: [P16872](#)

Pathways: [SARS-CoV-2 Protein Interactome](#)

Application Details

Application Notes: Immunohistochemistry Dilution: User Optimized

Application Note: This affinity purified antibody has been tested for use in ELISA, immunoprecipitation, and western blotting. Specific conditions for reactivity should be optimized by the end user. Expect a band approximately 55 kDa in size corresponding to phosphorylated IL-7 by western blotting in the appropriate cell lysate or extract. This phospho-specific polyclonal antibody reacts with mouse IL-7 pY449 and shows minimal reactivity by ELISA against the non-phosphorylated form of the immunizing peptide.

Western Blot Dilution: 1:10,000

ELISA Dilution: 1:5,000-1:50,000

Other: User Optimized

Application Details

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 0.82 mg/mL

Buffer: Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Stabilizer: None
Preservative: 0.01 % (w/v) Sodium Azide

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

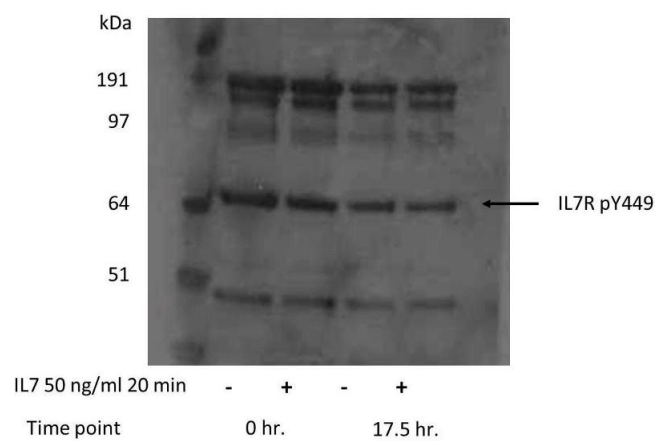
Storage: 4 °C, -20 °C

Storage Comment: Store IL-7 Receptor Alpha Chain phospho Y449 Antibody at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.

Expiry Date: 12 months

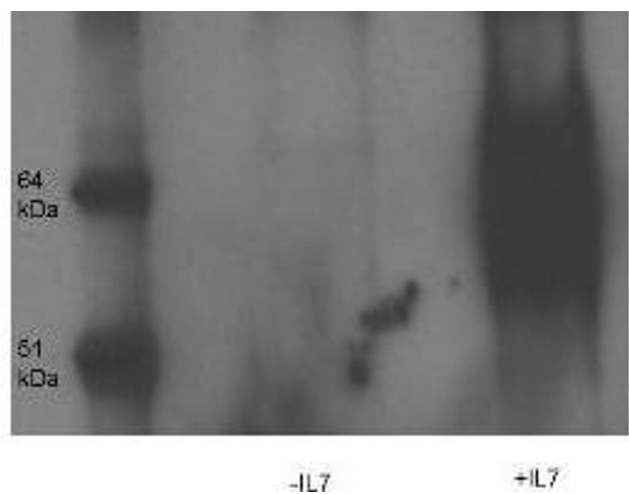
Publications

Product cited in: Osborne, Dhanji, Snow, Priatel, Ma, Miners, Teh, Goldsmith, Abraham: "Impaired CD8 T cell memory and CD4 T cell primary responses in IL-7R alpha mutant mice." in: **The Journal of experimental medicine**, Vol. 204, Issue 3, pp. 619-31, (2007) ([PubMed](#)).



Western Blotting

Image 1.



Western Blotting

Image 2. Western Blot and immunoprecipitation of Rabbit anti- IL-7-Receptor-alpha-chain-pY449 antibody. Lane 1: thymocyte D1 cells. Lane 2: thymocyte D1 cells treated with IL7 (50 ng/ml). IP: with anti-Phosphotyrosine conjugated to Protein G agarose. Primary antibody: IL7pY449 antibody at 1:10000 for overnight at 4°C. Secondary antibody: HRP-conjugated goat anti-rabbit antibody at 1:10,000 for 45 min at RT and ECL detection. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: 55 kDa, ~64 kDa for IL7pY449. Other band(s): unspecifics.