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Product datasheet for TA319456

Il7r Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	ELISA: 1:5,000-1:50,000, WB: 1:10,000, IHC: User Optimized
Reactivity:	Human, Mouse, Rat
Modifications:	Phospho-specific
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
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.
Formulation:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Concentration:	lot specific
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	interleukin 7 receptor
Database Link:	NP_032398 Entrez Gene 3575 HumanEntrez Gene 294797 RatEntrez Gene 16197 Mouse P16872
Synonyms:	CD127; CDW127; IL-7R-alpha; IL7RA; ILRA

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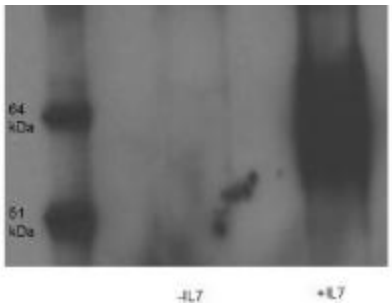
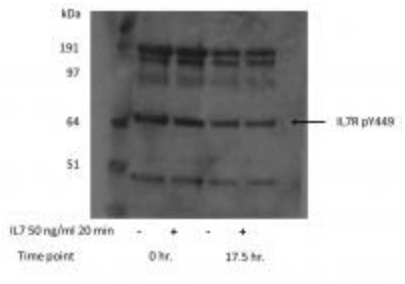
Note: This antibody is suitable for Cancer, Immunology and Nuclear Signaling research. Interleukin-7 is a glycoprotein involved in the regulation of lymphopoiesis. Response of cells to IL7 is dependent on the presence of the interleukin 7 receptor (IL7R); the active receptor is an alpha/gamma chain heterodimer. 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.

Product images:



WB and IP 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.



Western Blot of Rabbit anti-IL-7-Receptor-alpha-chain-pY449 antibody. Load: thymocyte D1 cells treated with or without IL-7 (50 ng/ml) for 20 min. Primary antibody: IL7pY449 antibody at 1:1000 for overnight at 4°C. Secondary antibody: IRDye800™ rabbit secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: 55 kDa, ~64 kDa for IL7pY449. Other band (s): unspecifics.