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Product datasheet for TA392407M

IL7R alpha (IL7R) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	WB: 1:5000~1:10000
Reactivity:	Human, Mouse
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Recombinant protein of human IL7R/CD127.
Specificity:	IL7R/CD127 polyclonal antibody detects endogenous levels of IL7R/CD127 protein.
Formulation:	Rabbit IgG, 1mg/ml in PBS with 0.02% sodium azide, 50% glycerol, pH7.2.
Concentration:	1mg/ml
Conjugation:	Unconjugated
Storage:	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze-thaw cycles.
Stability:	1 year
Predicted Protein Size:	~ 65 kDa
Gene Name:	interleukin 7 receptor
Database Link:	Entrez Gene 3575 Human P16871

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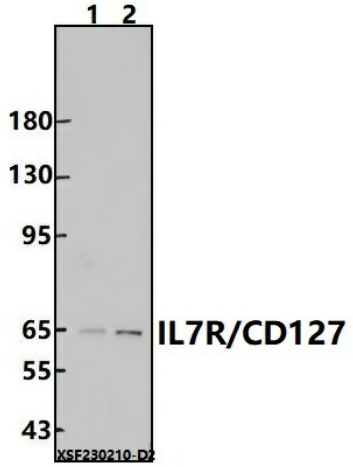
Background: The IL-7 receptor (IL-7R) is comprised of two protein subunits, CD127/IL-7Rα (IL-7Ralpha) and the common gamma chain (CD132), which is the major signaling component for several cytokines including IL-2, IL-4, IL-9, IL-15, and IL-21. CD127/IL-7Rα is a transmembrane protein belonging to the cytokine receptor homology class 1 (CRH1) and is expressed by a wide variety of cells including immature B cells, thymic natural killer cells, bone marrow stromal cells, and T cells. On its own, CD127/IL-7Rα functions as a receptor for two cytokine receptor complex signaling cascades: IL-7 and thymic stromal lymphopoietin (TSLP). IL-7 signaling contributes to T cell development and homeostasis whereas TSLP receptor signaling contributes to dendritic cell activation and B cell development. IL-7 signaling is an essential component in regulating the homeostasis of naive and memory T cells as differential expression of CD127/IL-7Rα is observed on naive and activated T cells, which occurs following TCR activation. Specifically, CD127/IL-7Rα expression is downregulated on activated T cells and the subsequent re-expression of CD127/IL-7Rα on these cells is indicative of cells that will differentiate into memory T cells. The A7R34 antibody is widely used to identify CD127/IL-7Rα expression on both B and T cells.

Synonyms: CD127; IL-7 receptor subunit alpha; IL-7R-alpha; IL-7RA; IL-7R subunit alpha; Il7r; Interleukin-7 receptor subunit alpha

Note: For research use only, not for use in diagnostic procedure.

Product images:



Western blot (WB) analysis of IL7R/CD127 polyclonal antibody at 1:5000 dilution Lane1:BV2 whole cell lysate(30ug) Lane2:Jurkat whole cell lysate(30ug)