

Rabbit Anti-CD127/IL-7Ra Polyclonal: RC0307

Intended Use: For Research Use Only

Description: CD127, a 60-90 kDa cell surface protein also known as the Interleukin-7 Receptor alpha chain, or IL-7R alpha, is typically expressed at the cell surface as a heterodimer with the common gamma chain (CD132). This complex acts as the functional receptor for IL-7, a cytokine important in T and B cell development, and in mature T cell homeostasis. A second cytokine known as Thymic Stromal Lymphopietin (TSLP) also binds to a receptor complex of CD127 and the TSLPR chain to trigger activation of dendritic cells, and is involved in B cell development, allergy and autoimmunity. This antibody may be used as a phenotypic marker for CD127 on immature B cells, on subsets of thymocytes which are double negative (CD4-CD8-) or single positive (CD4+ or CD8+), and at low levels on mature, peripheral T cells. CD127 is a key marker, when used in combination with CD4 and CD25, to distinguish Treg and effector/memory Treg populations known as T(REM).

Specifications:

Clone: Polyclonal
 Source: Rabbit
 Isotype: IgG
 Reactivity: Human, mouse
 Localization: Membrane, secreted
 Formulation: Antibody in PBS pH7.4, containing BSA and ≤ 0.09% sodium azide (NaN3)
 Storage: Store at 2°- 8°C
 Applications: IHC, IF, WB
 Package:

Description	Catalog No.	Size
CD127/IL-7Ra Polyclonal Concentrated	RC0307	1 ml

IHC Procedure*:

Positive Control Tissue: Colon, lymphoma tissue
 Concentrated Dilution: 25-50
 Pretreatment: Citrate pH6.0 or EDTA pH8.0 15 minutes using Pressure Cooker, or 30-60 minutes using water bath at 95°-99°C
 Incubation Time and Temp: 30-60 minutes @ RT
 Detection: Refer to the detection system manual

* Result should be confirmed by an established diagnostic procedure.

References:

1. Down-regulation of interleukin 7 receptor (IL-7R) contributes to central nervous system demyelination. Lei X, et al. Oncotarget 8:28395-28407, 2017.
2. Viral Load Affects the Immune Response to HBV in Mice With Humanized Immune System and Liver. Dusséaux M et al. Gastroenterology. 2017.
3. Blockade of CD127 Exerts a Dichotomous Clinical Effect in Marmoset Experimental Autoimmune Encephalomyelitis. Dunham J et al. J Neuroimmune Pharmacol. 2016.
4. B-cell maturation antigen is a promising target for adoptive T-cell therapy of multiple myeloma. Carpenter RO et al. Clin Cancer Res. 2013.
5. IL-7 produced by thymic epithelial cells plays a major role in the development of thymocytes and TCRγδ+ intraepithelial lymphocytes. Shitara S, et al. J Immunol. Jun 15;190(12):6173-9, 2013.

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