

For Research Use Only

# IL-7 Recombinant monoclonal antibody, PBS Only

Catalog Number: 84165-5-PBS



## Basic Information

Catalog Number:

84165-5-PBS

Size:

100ug, Concentration: 1 mg/ml by  
Nanodrop;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

HZ-1281

GenBank Accession Number:

GeneID (NCBI):

3574

UNIPROT ID:

P13232

Full Name:

interleukin 7

Purification Method:

Protein A purification

CloneNo.:

252659C10

## Applications

Tested Applications:

WB, IHC, Indirect ELISA

Species Specificity:

human

## Background Information

Interleukin-7 (IL-7) is a non-redundant, pleiotropic cytokine fundamental to the development, homeostasis, and function of the immune system. It is primarily produced by stromal cells in the bone marrow and thymus, as well as by epithelial cells in peripheral lymphoid organs. IL-7 signals through a heterodimeric receptor consisting of the private IL-7 receptor alpha chain (IL-7R $\alpha$ /CD127) and the common gamma chain ( $\gamma$ c), activating key pathways such as JAK/STAT, PI3K/Akt, and MAPK to promote lymphocyte survival, proliferation, and metabolic fitness. Its critical role is underscored by the severe lymphopenia and immunodeficiency observed in both IL-7- and IL-7R-deficient humans and mice.

## Storage

Storage:

Store at -80°C.

Storage Buffer:

PBS only, pH7.3

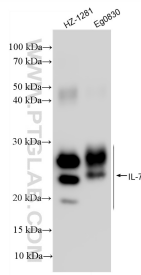
For technical support and original validation data for this product please contact:

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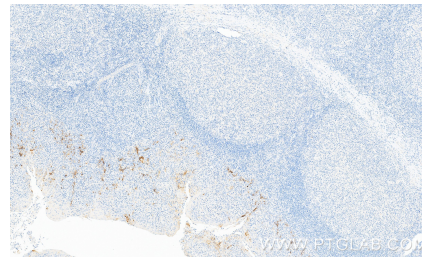
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## Selected Validation Data



Human IL-7 recombinant protein was subjected to SDS PAGE followed by western blot with 84165-5-RR (IL-7 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 84165-5-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 84165-5-RR (IL-7 antibody) at dilution of 1:1000 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 84165-5-PBS in a different storage buffer formulation.