

For Research Use Only

IL-7 Recombinant monoclonal antibody

Catalog Number: 84165-5-RR



Basic Information

Catalog Number:

84165-5-RR

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

Recommended Dilutions:

WB: 1:5000-1:50000

IHC: 1:500-1:2000

Applications

Tested Applications:

WB, IHC, ELISA

Species Specificity:

human

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : Recombinant protein,

IHC : human tonsillitis tissue,

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 α /CD127) and the common gamma chain (γ 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 -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

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

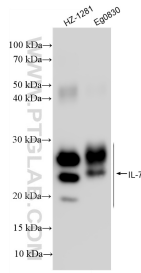
T: 4006900926

E: Proteintech-CN@ptglab.com

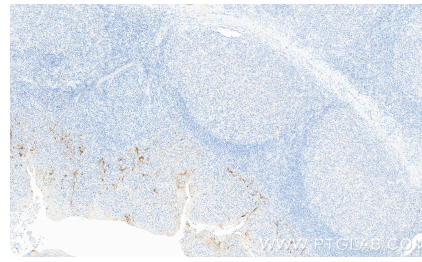
W: ptgcn.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

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.



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).