

For Research Use Only

IL-7 Recombinant monoclonal antibody

Catalog Number: 84165-5-RR



Basic Information

Catalog Number: 84165-5-RR	GenBank Accession Number: GeneID (NCBI): 3574	Purification Method: Protein A purification
Size: 100ul , Concentration: 1000 µg/ml by Nanodrop;	UNIPROT ID: P13232	CloneNo.: 252659C10
Source: Rabbit	Full Name: interleukin 7	Recommended Dilutions: WB: 1:5000-1:50000 IHC: 1:500-1:2000
Isotype: IgG		
Immunogen Catalog Number: HZ-1281		

Applications

Tested Applications: WB, IHC, ELISA	Positive Controls:
Species Specificity: human	WB : Recombinant protein, IHC : human tonsillitis tissue,
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	

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-7Ra/CD127) and the common gamma chain (γc), 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

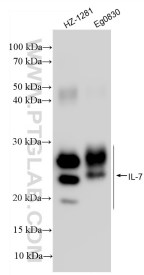
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

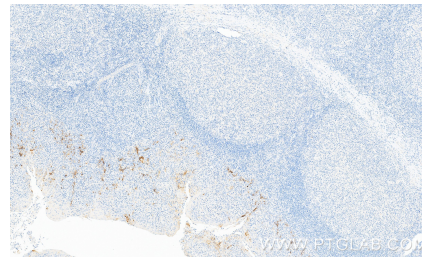
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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).