



## Anti-IL7 polyclonal antibody (DPAB-TJ087)

This product is for research use only and is not intended for diagnostic use.

### PRODUCT INFORMATION

#### Antigen Description

Interleukin-7 (IL-7) was originally described as a factor capable of inducing in vitro proliferation of pre-B cells from marrow cultures. The IL-7 gene encodes a protein 177 amino acids in length. IL-7 exerts its biological function through the IL-7 receptor which is expressed on pre-B cells, thymocytes and bone marrow-derived macrophages. The IL-7 receptor is composed of an IL-7 receptor-specific chain and the IL-2 receptor  $\gamma$  chain common to the IL-2, IL-4, IL-7, IL-9 and IL-15 receptors. IL-7 stimulation leads to the activation of Janus tyrosine kinase family members JAK1 and JAK3. Other studies have shown that in T cells, the IL-7 receptor-specific chain associates with the Src kinases family Lck and Fyn. IL-7 induces phosphorylation of insulin receptor substrate-1 (IRS-1) and insulin receptor substrate-2 (IRS-2), originally called 4PS.

<b>Isotype</b>	IgG
<b>Source/Host</b>	Goat
<b>Species Reactivity</b>	Mouse
<b>Purification</b>	Affinity purified
<b>Conjugate</b>	Unconjugated
<b>Applications</b>	WB, IP, IF, IHC-P, ELISA
<b>Molecular Weight</b>	25 kDa
<b>Concentration</b>	0.2mg/ml
<b>Size</b>	200 $\mu$ g
<b>Buffer</b>	PBS with < 0.1% sodium azide and 0.1% gelatin
<b>Preservative</b>	< 0.1% Sodium Azide

**Storage**

Store at 4°C, DO NOT FREEZE. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

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## GENE INFORMATION

Gene Name	<a href="#">Il7 interleukin 7 [ Mus musculus (house mouse) ]</a>
Official Symbol	Il7
Synonyms	Il7; interleukin 7; Il-7; hlb368; A630026I06Rik; interleukin-7
Entrez Gene ID	<a href="#">16196</a>
Protein Refseq	<a href="#">NP_032397.1</a>
UniProt ID	<a href="#">P10168</a>
Chromosome Location	3 A1; 3 2.02 cM
Pathway	Cytokine Signaling in Immune system; Cytokine-cytokine receptor interaction; Cytokines and Inflammatory Response (BioCarta); Hematopoietic cell lineage; Immune System
Function	cytokine activity; cytokine receptor binding; growth factor activity; interleukin-7 receptor binding