

# IL-16 Recombinant monoclonal antibody

Catalog Number: 86421-1-RR

## Basic Information

<b>Catalog Number:</b> 86421-1-RR	<b>GenBank Accession Number:</b> NM_010551.3	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ul, Concentration: 1000 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 16170	<b>CloneNo.:</b> 250058G12
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> O54824-1	<b>Recommended Dilutions:</b> WB: 1:20000-1:100000 IHC: 1:500-1:2000
<b>Isotype:</b> IgG	<b>Full Name:</b> interleukin 16	
<b>Immunogen Catalog Number:</b> EG3127	<b>Calculated MW:</b> 141 kDa <b>Observed MW:</b> 66-72 kDa	

## Applications

<b>Tested Applications:</b> WB, IHC, ELISA	<b>Positive Controls:</b>
<b>Species Specificity:</b> mouse, rat	<b>WB :</b> RAW 264.7 cells, mouse spleen tissue, mouse thymus tissue, rat thymus tissue
<b>Note-IHC:</b> suggested antigen retrieval with <b>TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	<b>IHC :</b> mouse spleen tissue,

## Background Information

IL-16 is a pleiotropic cytokine that functions as a chemoattractant, a modulator of T cell activation, and an inhibitor of HIV replication. It is mainly produced by T lymphocytes but also by other immune cells, neuronal cells, fibroblasts and epithelial cells. The signaling process of this cytokine is mediated by CD4. IL-16 induces chemotaxis of CD4+ cells such as lymphocytes, eosinophils, and dendritic cells by ligating CD4 directly at a site distinct from other ligands. Among its multiple functions, IL-16 is a T cell chemoattractant involved in T helper cell inflammatory responses and the regulation of both T cell growth, and responsiveness to regulatory cytokines. The cytokine function is exclusively attributed to the secreted C-terminal peptide, while the N-terminal product may play a role in cell cycle control. Pro-IL-16 can be detected at about 80 kDa, and cleaved fragments can be detected at between 40 and 75 kDa.

## Storage

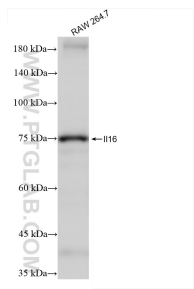
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol, pH7.3  
**Aliquoting is unnecessary for -20°C storage**

\*\*\* 20ul sizes contain 0.1% BSA

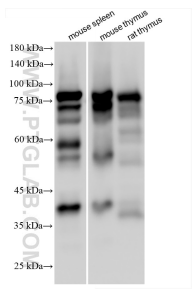
For technical support and original validation data for this product please contact:  
 T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
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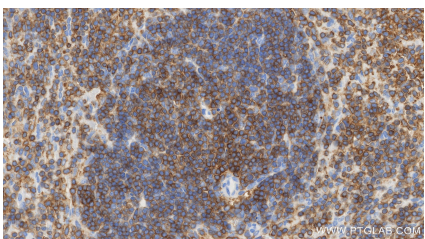
## Selected Validation Data



RAW 264.7 cells were subjected to SDS PAGE followed by western blot with 86421-1-RR (IL16 antibody) at dilution of 1:50000 incubated at room temperature for 1.5 hours.



Various lysates were subjected to SDS PAGE followed by western blot with 86421-1-RR (IL16 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse spleen tissue slide using 86421-1-RR (IL-16 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).