

For Research Use Only

# IL-27 Monoclonal antibody

Catalog Number: 66164-1-Ig **1 Publications**



## Basic Information

<b>Catalog Number:</b> 66164-1-Ig	<b>GenBank Accession Number:</b> BC062422	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 2100 µg/ml	<b>GeneID (NCBI):</b> 246778	<b>CloneNo.:</b> 1E1H5
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> Q8NEV9	<b>Recommended Dilutions:</b> WB 1:2000-1:20000 IHC 1:20-1:200
<b>Isotype:</b> IgG2b	<b>Full Name:</b> interleukin 27	
<b>Immunogen Catalog Number:</b> AG21436	<b>Calculated MW:</b> 243 aa, 27 kDa	
	<b>Observed MW:</b> 31 kDa	

## Applications

<b>Tested Applications:</b> IHC, WB, ELISA	<b>Positive Controls:</b> WB : Recombinant protein, Ag21436 IHC : human placenta tissue,
<b>Cited Applications:</b> IHC	
<b>Species Specificity:</b> human	
<b>Cited Species:</b> human	
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	

## Background Information

IL-27, as a member of the IL-6/IL-12 family, is a heterodimeric cytokine composed of two subunits: p28 (IL-27a) and EBI3 (IL-27b). IL-27 acts on various cell types, including T cells, B cells, macrophages, dendritic cells, natural killer (NK) cells and non-hematopoietic cells. IL-27 plays a critical role in the early regulation of T helper type 1 initiation, and enhances proliferation of naïve CD4+T cells and naïve B cells. It, however, also exerts anti-inflammatory functions by inhibiting the development of Th17 cells and inducing IL-10 producing type 1 regulatory T cells. IL-27 is a potentially promising cytokine for therapeutic approaches on various human diseases.

## Notable Publications

Author	Pubmed ID	Journal	Application
Yusuke Shimizu	33419819	Anticancer Res	IHC

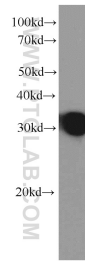
## Storage

**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

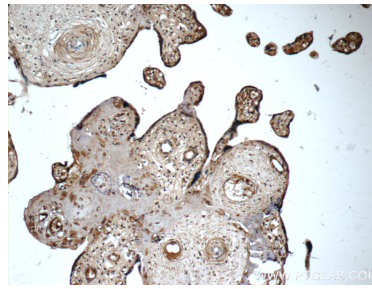
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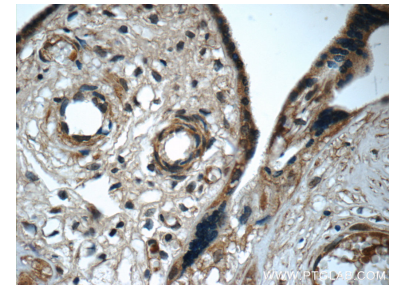
## Selected Validation Data



IL27 fusion protein were subjected to SDS PAGE followed by western blot with 66164-1-Ig (IL-27 antibody at dilution of 1:5000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human placenta tissue slide using 66164-1-Ig (IL-27 antibody at dilution of 1:50 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human placenta tissue slide using 66164-1-Ig (IL-27 antibody at dilution of 1:50 (under 40x lens).