

For Research Use Only

# IRF4 Recombinant monoclonal antibody, PBS Only (Capture)

Catalog Number: 87342-1-PBS



## Basic Information

<b>Catalog Number:</b> 87342-1-PBS	<b>GenBank Accession Number:</b> BC015752	<b>Purification Method:</b> Protein A purification
<b>Source:</b> Rabbit	<b>GeneID (NCBI):</b> 3662	<b>CloneNo.:</b> 252430B2
<b>Isotype:</b> IgG	<b>ENSEMBL Gene ID:</b> ENSG00000137265	
<b>Immunogen Catalog Number:</b> AG1762	<b>UNIPROT ID:</b> Q15306	
	<b>Full Name:</b> IRF 4	
	<b>Calculated MW:</b> 52 kDa	
	<b>Observed MW:</b> 50-52 kDa	

## Applications

**Tested Applications:**  
WB, IHC, Cytometric bead array, Indirect ELISA

**Species Specificity:**  
human

## Background Information

IRF4 is a member of the IRF family of transcription factors, expressed in most cell types of the immune system. IRF4 is a transcription factor essential for the development of T helper-2 (Th2) cells, IL17-producing Th17 cells, and IL9-producing Th9 cells, as well as dendritic cell (DC). It binds to and activates the ISRE of the MHC class I promoter, and may have a role in ISRE-targeted signal transduction mechanisms specific to lymphoid cells.

## Storage

**Storage:**  
Store at -80°C.  
**The product is shipped with ice packs. Upon receipt, store it immediately at -80°C**

**Storage Buffer:**  
PBS only, pH7.3

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

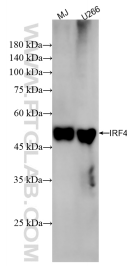
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

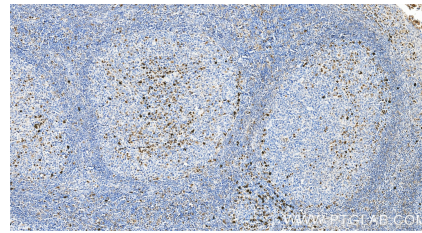
W: [ptgcn.com](http://ptgcn.com)

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

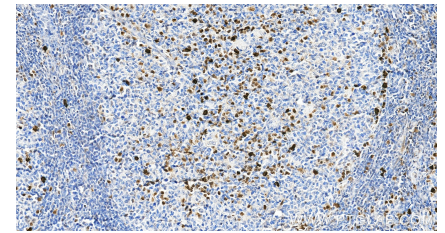
## Selected Validation Data



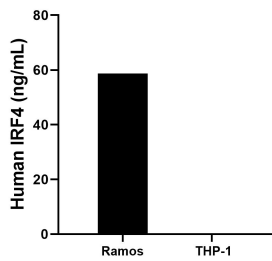
Various lysates were subjected to SDS PAGE followed by western blot with 87342-1-RR (IRF4 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 87342-1-PBS in a different storage buffer formulation.



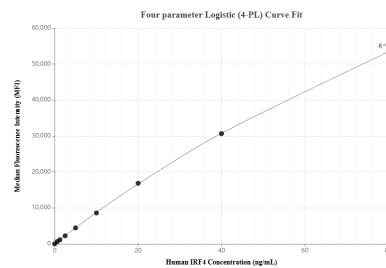
Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 87342-1-RR (IRF4 antibody) at dilution of 1:5000 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 87342-1-PBS in a different storage buffer formulation.



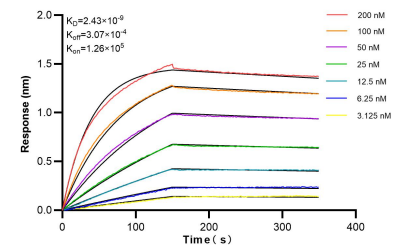
Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 87342-1-RR (IRF4 antibody) at dilution of 1:5000 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 87342-1-PBS in a different storage buffer formulation.



The mean IRF4 concentration was determined to be 58.7 ng/mL in Ramos cell extract based on a 2.3 mg/mL extract load, THP-1 cell extract were served as a negative control.



Cytometric bead array standard curve of MP02975-1, IRF4 Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 87342-1-PBS. Detection antibody: 87342-2-PBS. Standard: Ag1762. Range: 0.625-80 ng/mL.



Bi-layer interferometry (BLI) kinetic assays of 87342-1-RR against Human IRF4 were performed. The affinity constant is 2.43 nM.