

For Research Use Only

IRF4 Recombinant monoclonal antibody, PBS Only (Capture)

Catalog Number: 87342-1-PBS



Basic Information

Catalog Number: 87342-1-PBS	GenBank Accession Number: BC015752	Purification Method: Protein A purification
Size: 100ug, Concentration: 1 mg/ml by Nanodrop;	GeneID (NCBI): 3662	CloneNo.: 252430B2
Source: Rabbit	ENSEMBL Gene ID: ENSG00000137265	
Isotype: IgG	UNIPROT ID: Q15306	
Immunogen Catalog Number: AG1762	Full Name: IRF 4	
	Calculated MW: 52 kDa	
	Observed MW: 50-52 kDa	

Applications

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

Species Specificity:
human

Product Information

87342-1-PBS targets IRF4 as part of a matched antibody pair:

MP02975-1: 87342-1-PBS capture and 87342-2-PBS detection (validated in Cytometric bead array)

Unconjugated rabbit recombinant monoclonal antibody in PBS only (BSA and azide free) storage buffer at a concentration of 1 mg/mL, ready for conjugation. Created using Proteintech's proprietary in-house recombinant technology. Recombinant production enables unrivalled batch-to-batch consistency, easy scale-up, and future security of supply.

This conjugation ready format makes antibodies ideal for use in many applications including: ELISAs, multiplex assays requiring matched pairs, mass cytometry, and multiplex imaging applications. Antibody use should be optimized by the end user for each application and assay.

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.

Storage Buffer:
PBS only, pH7.3

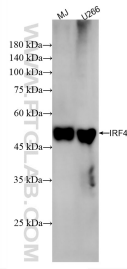
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

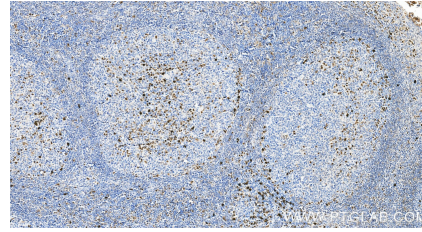
E: proteintech@ptglab.com
W: ptglab.com

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

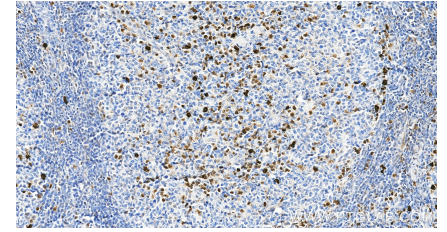
Selected Validation Data



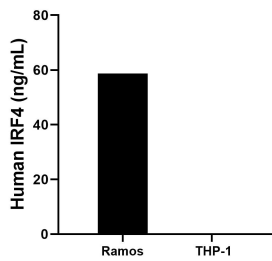
Various lysates were subjected to SDS PAGE followed by western blot with 87342-1-RR (IRF4 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 87342-1-PBS in a different storage buffer formulation.



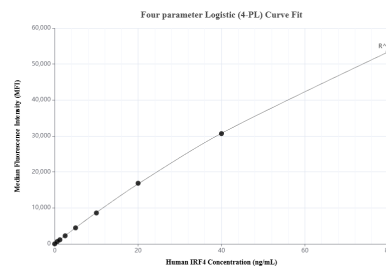
Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 87342-1-RR (IRF4 antibody) at dilution of 1:5000 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 87342-1-PBS in a different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



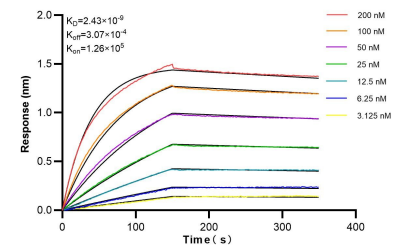
Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 87342-1-RR (IRF4 antibody) at dilution of 1:5000 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 87342-1-PBS in a different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