

For Research Use Only

# PADI4 Recombinant monoclonal antibody

Catalog Number: 86419-1-RR



## Basic Information

<b>Catalog Number:</b> 86419-1-RR	<b>GenBank Accession Number:</b> BC025718	<b>Purification Method:</b> Protein A purification
<b>Source:</b> Rabbit	<b>GeneID (NCBI):</b> 23569	<b>CloneNo.:</b> 250881C10
<b>Isotype:</b> IgG	<b>UNIPROT ID:</b> Q9UM07	<b>Recommended Dilutions:</b> WB: 1:1000-1:6000 IF/ICC: 1:200-1:800
<b>Immunogen Catalog Number:</b> AG11339	<b>Full Name:</b> peptidyl arginine deiminase, type IV	
	<b>Calculated MW:</b> 663 aa, 74 kDa	
	<b>Observed MW:</b> 67 kDa	

## Applications

<b>Tested Applications:</b> WB, IF/ICC, ELISA	<b>Positive Controls:</b>
<b>Species Specificity:</b> human, mouse, rat	<b>WB :</b> HeLa cells, K-562 cells, mouse spleen tissue, rat spleen tissue
	<b>IF/ICC :</b> A549 cells,

## Background Information

PADI4, also named PADI5 and PDI5, catalyzes the citrullination/deimination of arginine residues of proteins such as histones, thereby playing a key role in histone code and regulation of stem cell maintenance. PADI4 is expressed in hematologic and rheumatoid arthritis synovial tissues. PADI4 haplotype associated with susceptibility to rheumatoid arthritis increases the production of citrullinated peptides, leading, in a cytokine-rich milieu, to a break in tolerance to citrullinated peptides processed and presented in the appropriate HLA context. Immunohistochemistry detected significant PADI4 expression in various malignancies and PADI4 expression was not detected in non-tumor tissues. (PMID: 19183436)

## 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

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

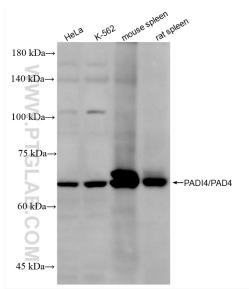
T: 4006900926

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

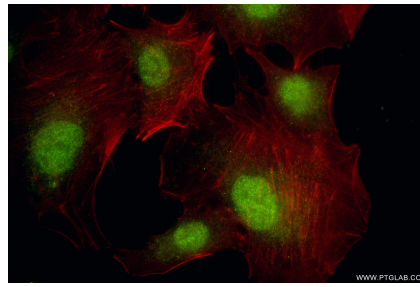
W: [ptgcn.com](http://ptgcn.com)

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## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 86419-1-RR (PADI4 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (4% PFA) fixed A549 cells using PADI4 antibody (86419-1-RR, Clone: 250881C10) at dilution of 1:400 and CoraLite® 488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red).