

For Research Use Only

PADI4 Recombinant monoclonal antibody, PBS Only

Catalog Number: 86419-1-PBS



Basic Information

Catalog Number: 86419-1-PBS	GenBank Accession Number: BC025718	Purification Method: Protein A purification
Size: 100ug, Concentration: 1 mg/ml by Nanodrop;	GeneID (NCBI): 23569	CloneNo.: 250881C10
Source: Rabbit	UNIPROT ID: Q9UM07	
Isotype: IgG	Full Name: peptidyl arginine deiminase, type IV	
Immunogen Catalog Number: AG11339	Calculated MW: 663 aa, 74 kDa	
	Observed MW: 67 kDa	

Applications

Tested Applications:
WB, IF/ICC, Indirect ELISA

Species Specificity:
human, mouse, rat

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 -80°C.

Storage Buffer:
PBS only, pH7.3

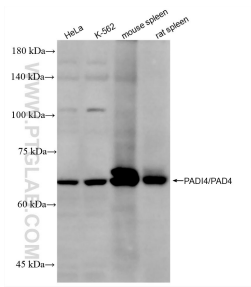
For technical support and original validation data for this product please contact:

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

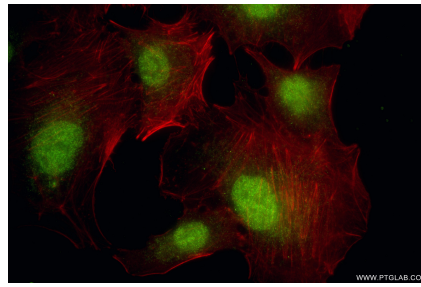
E: proteintech@ptglab.com
W: ptglab.com

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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. This data was developed using the same antibody clone with 86419-1-PBS in a different storage buffer formulation.



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). This data was developed using the same antibody clone with 86419-1-PBS in a different storage buffer formulation.