

For Research Use Only

PADI4 Recombinant monoclonal antibody

Catalog Number: 86419-1-RR



Basic Information

Catalog Number: 86419-1-RR	GenBank Accession Number: BC025718	Purification Method: Protein A purification
Size: 100ul , Concentration: 1000 µg/ml by Nanodrop;	GeneID (NCBI): 23569	CloneNo.: 250881C10
Source: Rabbit	UNIPROT ID: Q9UM07	Recommended Dilutions: WB: 1:1000-1:6000 IF/ICC: 1:200-1:800
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, ELISA	Positive Controls:
Species Specificity: human, mouse, rat	WB : HeLa cells, K-562 cells, mouse spleen tissue, rat spleen tissue IF/ICC : 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

*** 20ul sizes contain 0.1% BSA

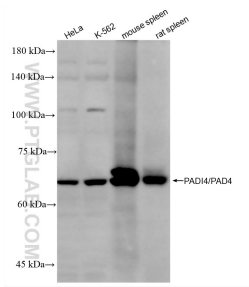
For technical support and original validation data for this product please contact:

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

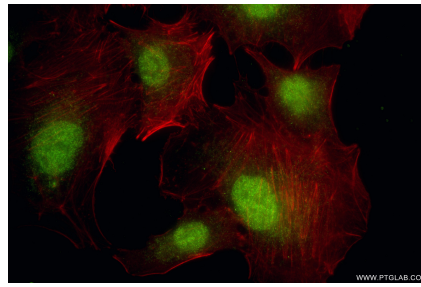
E: proteintech@ptglab.com
W: ptglab.com

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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.



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).