

For Research Use Only

CoraLite® Plus 488-conjugated PADI4 Polyclonal antibody

Catalog Number: CL488-17373

Featured Product



Basic Information

Catalog Number:

CL488-17373

Size:

1000 ug/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG11068

GenBank Accession Number:

BC025718

GeneID (NCBI):

23569

UNIPROT ID:

Q9UM07

Full Name:

peptidyl arginine deiminase, type IV

Calculated MW:

663 aa, 74 kDa

Observed MW:

67 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

IF/ICC 1:50-1:500

Excitation/Emission maxima wavelengths:

493 nm / 522 nm

Applications

Tested Applications:

IF/ICC, FC (Intra)

Species Specificity:

human, mouse, rat

Positive Controls:

IF/ICC : A549 cells,

Background Information

PADI4, also named as 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 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. Avoid exposure to light. Stable for one year after shipment.

Storage Buffer:

PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.

Aliquoting is unnecessary for -20°C storage

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

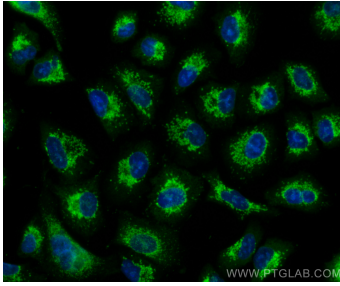
T: 4006900926

E: Proteintech-CN@ptglab.com

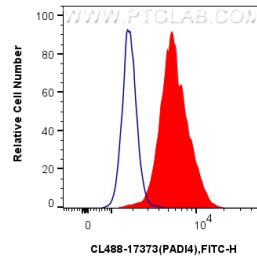
W: ptgcn.com

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Selected Validation Data



Immunofluorescent analysis of (4% PFA) fixed A549 cells using Coralite® Plus 488 PADI4 antibody (CL488-17373) at dilution of 1:200.



1X10⁶ HeLa cells were intracellularly stained with 0.8 ug Coralite® Plus 488 Anti-Human PADI4 (CL488-17373) (red), or 0.8 ug Coralite® Plus 488-conjugated Rabbit IgG control Rabbit PolyAb (CL488-30000, Clone:) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).