For Research Use Only

PADI2
Polyclonal ANTIBODY

Catalog Number: 12110-1-AP

Basic Information
Catalog Number: 12110-1-AP
Size: 41 μg/150 μl
Source: Rabbit
Isotype: IgG
Purification Method: Antigen affinity purification
Immunogen Catalog Number: AG2755

GenBank Accession Number: BC009701
GeneID (NCBI): 11240
Full Name: peptidyl arginine deiminase, type II
Calculated MW: 665aa, 75 kDa
Observed MW: 70-75 kDa, 50 kDa

Recommended Dilutions:
WB 1:300-1:1000
IP 0.5-4.0 μg for IP and 1:200-1:1000 for WB
IHC 1:100-1:400
IF 1:10-1:100

Applications
Tested Applications: IF, IHC, IP, WB, ELISA
Cited Applications: COIP, IF, IHC, WB
Species Specificity: human, mouse, rat
Cited Species: dog, human, mouse

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:
WB: MCF-7 cells, rat brain tissue, mouse brain tissue
IP: mouse brain tissue;
IHC: human gliomas tissue; human kidney tissue, human breast cancer tissue
IF: BuPC-3 cells; human breast cancer tissue, HeLa cells

Background Information
PADI2, also named as KIAA0994, PD32, PAD-H19 and PAD2 (Peptidyl arginine deiminase II), belongs to the protein arginine deiminase family. It catalyzes the deimination of arginine residues of proteins. PADI2 may play a regulatory role in the expression of lactation related genes via histone citrullination during diestrus (PMID:20668670). PADI2 has two isoforms with MW 75 kDa and 49 kDa.

Notable Publications

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<th>Author</th>
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<td>Daniel M Lewallen</td>
<td>26360112</td>
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<td>John I McElvee</td>
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<td>Shaihla A Khan</td>
<td>27633413</td>
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Storage
Store at -20°C. Stable for one year after shipment.
Storage Buffer: PBS with 0.1% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

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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MCF-7 cells were subjected to SDS PAGE followed by western blot with 12110-1-AP (PADI2 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.

WB result of PADI2 antibody (12110-1-AP; 1:2000; incubated at room temperature for 1.5 hours) with sh-Control and sh-PADI2 transfected MCF-7 cells.

IP Result of anti-PADI2 (IP:12110-1-AP, 3ug; Detection: 12110-1-AP 1:300) with mouse brain tissue lysate 3000ug.

Immunohistochemical analysis of paraffin-embedded human gliomas tissue slide using 12110-1-AP (PADI2 Antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieved with Tris-EDTA buffer (pH9).

Immunofluorescent analysis of BxPC-3 cells using 12110-1-AP (PADI2 antibody) at dilution of 1:25 and Alexa Fluor 488-conjugated AfiniPure Goat Anti-Rabbit IgG(H+L).