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PADI4 (C) Antibody, Rabbit Polyclonal

Cat#: R0760-3

Quantity: 100 ul

Predicted M.W.: 74 kDa

Lot#: Refer to vial

Application: WB

Uniprot ID: Q9UM07

Background:

Protein-arginine deiminase type-4 (PADI4) belongs to the protein arginine deiminase family. It catalyzes the citrullination/deimination of arginine residues of proteins. PADI4 citrullinates histone H3 at 'Arg-8' and/or 'Arg-17' and histone H4 at 'Arg-3', which prevents their methylation by CARM1 and HRMT1L2/PRMT1 and represses transcription. It citrullinates EP300/P300 at 'Arg-2142', which favors its interaction with NCOA2/GRIP1. Genetic variations in PADI4 are a cause of susceptibility to rheumatoid arthritis (RA), a systemic inflammatory disease with autoimmune features.

Other Names:

Protein-arginine deiminase type-4, HL-60 PAD. Peptidylarginine deiminase IV, Protein-arginine deiminase type IV, PADI5, PDI5

Source and Purity:

Rabbit polyclonal antibodies were produced by immunizing animals with a GST-fusion protein containing the C-terminal region of human PADI4. Antibodies were purified by affinity purification using immunogen.

Storage Buffer and Condition:

Supplied in 1 x PBS (pH 7.4), 100 ug/ml BSA, 40% Glycerol, 0.01% NaN₃. Store at -20 °C. Stable for 6 months from date of receipt.

Species Specificity:

Human

Tested Applications:

WB: 1:500-1:1,000 (detect endogenous protein*)

*: The apparent protein size on WB may be different from the calculated M.W. due to modifications.

Product Data:

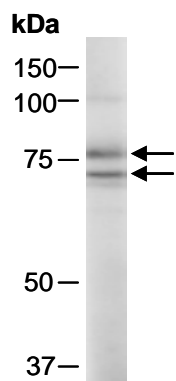


Fig 1. Western blot of total cell extracts from human HeLa, using Ab (R0760-3) at RT for 2 h.