

Product datasheet for **AP55150SU-N**

PADI4 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	ELISA, IHC, IP, WB
Recommended Dilution:	ELISA: 1/1000-1/5000. Western Blot: 1/200-1/2000. Immunoprecipitation: 1/20-1/100. Immunohistochemistry: 1/50-1/100.
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	A15 residue synthetic peptide derived from C-terminal domain of Human PADI4 protein
Specificity:	Reacts with 74 kDa PAD4 protein from Human, Mouse and Rat. No cross reaction with the other isoforms.
Formulation:	State: Serum State: Lyophilized powder Preservative: None
Reconstitution Method:	Restore in 0.2 ml distilled water.
Conjugation:	Unconjugated
Storage:	Store lyophilized at 2-8°C for 6 months or at -20°C long term. After reconstitution store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C long term. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	peptidyl arginine deiminase 4
Database Link:	Entrez Gene 23569 Human Q9UM07



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Background: PAD4 is a member of a family of enzymes responsible for the conversion of arginine residues to citrulline residues via catalyzation of the deimination of the arginine residues. PAD4 down-regulates histone H3 and H4 arginine methylation, both by preventing arginine methylation by CARM1 and HRMT1L2/PRMT1 and by converting methylarginine to citrulline. This protein may play a role in granulocyte and macrophage development leading to inflammation and immune response.

Synonyms: PDI4, PAD4, PDI5, PADI5, PADI-H, HL-60 PAD