

Product datasheet for **AP55148PU-N**

PADI2 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	ELISA, IHC, IP, WB
Recommended Dilution:	ELISA: 1/5000-1/20000. Western Blot: 1/200-1/2000. Immunoprecipitation: 1/20-1/100. Immunohistochemistry: 1/50-1/500.
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Synthetic peptide derived from C-terminal domain of the Human PAD-2 protein.
Specificity:	Reacts with 76 kDa PAD2 protein. No cross reaction with the other isoforms.
Formulation:	0.1M Tris 0.1M Glycine, 2% Sucrose State: Purified State: Lyophilized purified antibody Preservative: None
Reconstitution Method:	Restore in distilled water.
Concentration:	lot specific
Purification:	Affinity Chromatography on Protein A
Conjugation:	Unconjugated
Storage:	Prior to reconstitution store the antibody at -20°C. Store reconstituted antibody at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	peptidyl arginine deiminase 2
Database Link:	Entrez Gene 11240 Human Q9Y2J8



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Background:

PADI2 / PAD2 is a member of the peptidyl arginine deiminase family of enzymes, which catalyze the post translational deimination of proteins by converting arginine residues into citrullines in the presence of calcium ions. Each family member has a distinct substrate specificity and tissue expression pattern. The type II enzyme is the most widely expressed family member. Known substrates for this enzyme include myelin basic protein in the central nervous system and vimentin in skeletal muscle and macrophages. This enzyme is thought to play a role in the onset and progression of neurodegenerative disorders, including Alzheimers disease and multiple sclerosis, and it has also been implicated in the pathogenesis of glaucoma.

Synonyms:

PDI2, PDI2, PAD-H19, KIAA0994