

Recombinant Human PADI2, GST-tagged

Cat. No. PADI2-186H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human PADI2(1 a.a. - 108 a.a.), fused with GST-tag at N-terminal, was expressed in wheat germ.
Species	Human
Source	Wheat Germ
Description	This gene encodes 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. The family members have distinct substrate specificities and tissue-specific expression patterns. 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 human disorders, including Alzheimer disease and multiple sclerosis, and it has also been implicated in glaucoma pathogenesis. This gene exists in a cluster with four other paralogous genes.
Molecular Mass	37.62 kDa
AA Sequence	MLRERTVRLQYGSRVEAVYVLGTYLWTDVYSAAPAGAQTFSCLKHSEHWVEVVRD GEAEEVATNGKQRWLLSPST TLRVTMSQASTEASSDKVTVNYYDEEGSIPIDQ
Applications	ELISA; WB-Re; AP; Array

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Storage Store at -80°C. Aliquot to avoid repeated freezing and thawing.

Storage Buffer 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name PADI2 peptidyl arginine deiminase, type II [Homo sapiens (human)]

Official Symbol PADI2

Synonyms PADI2; PAD2; PDI2; PAD-H19; protein-arginine deiminase type-2; protein-arginine deiminase type II; NP_031391.2; EC 3.5.3.15; peptidyl arginine deiminase, type II

Gene ID 11240

mRNA Refseq NM_007365

Protein Refseq NP_031391

MIM 607935

UniProt ID Q9Y2J8

Chromosome Location 1p36.13

Pathway protein citrullination

Function calcium ion binding; estrogen receptor binding; protein-arginine deiminase activity

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