

Recombinant Human PADI2 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. PADI2-1634H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	PADI2 MS Standard C13 and N15-labeled recombinant protein (NP_031391) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
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	75.4 kDa
AA Sequence	MLRERTVRLQYGSRVEAVYVLGTYLWTDVYSAAPAGAQTFSCLKHSEHWVEVVRD GEAEVATNGKQRWLLSPSTTLRVTMSQASTEASSDKVTVNYYDEEGSIPIDQAGLF LTAIEISLDVDADRDGVVEKNNPKKASWTWGPEGQGAILLVNCRETPWLPKEDCR

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DEKVYSKEDLKDMSQMILRTKGPDRLPAGYEIVLYISMSDSKVGVFYVENPFFGQR
YIHILGRRKLYHVVKYTGGSAELLFFVEGLCFPDEGFSGLVSIHVSLLLEYMAQDIPLTP
IFTDTVIFRIAPWIMTPNILPPVSVFVCCMKDNYLFLKEVKNLVEKTNCELKVCFQYLN
RGDRWIQDEIEFGYIEAPHKGFPVVLDSPRDGNLKDFFVKELLGPDFGYVTREPLFE
SVTSLDSFGNLEVSPPVTVNGKTYPLGRILIGSSFPLSGGRRMTKVVRDFLKAQQVQ
APVELYSDWLTVGHVDEFMSFVPIPGTKKFLLLMASTSACYKLFREKQKDGHGGEAIM
FKGLGGMSSKRITINKILSNESLVQENLYFQRCLDWNRDILKKELGLTEQDIIDLPALE
KMDEDHRARAFFPNMVMIVLDKDLGIPKPFQVEEECCLEMHVRLLEPLGLEC
TFIDDISAYHKFLGEVHCCTNVRRKPFTFKWWHMPTRTRPLEQKLISEEDLAANDIL
DYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name PADI2 peptidyl arginine deiminase 2 [Homo sapiens (human)]

Official Symbol PADI2

Synonyms PADI2; peptidyl arginine deiminase, type II; protein-arginine deiminase type-2; KIAA0994; PDI2; protein arginine deiminase; peptidylarginine deiminase II; peptidylarginine deiminase type II; protein-arginine deiminase type II; PAD2; PAD-

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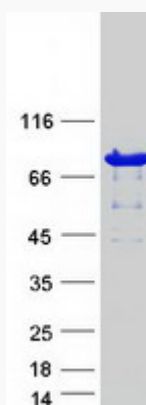
Gene ID 11240

mRNA Refseq NM_007365

Protein Refseq NP_031391

MIM 607935

UniProt ID Q9Y2J8

SDS-PAGE

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