

Full-Length

PADI1 (Human) Recombinant Protein (P01)

Catalog # H00029943-P01

Size 50 ug

Specification

Product Description	Human PADI1 full-length ORF (ADR83241.1, 1 a.a. - 663 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	MAPKRVVQLSLKMPHAVCVVGVEAHVDIHSDVPKGANSFRVSGSSGVEVFMVYNRTRVKEPIG KARWPLDTDADMVVSVGTASKELKDFKVRVSYFGEQEDQALGRSVLYLTGVDISLEVDTGRTGK VKRSQGDKKTWRWGPEGYGAILLVNCDRDNHRSAEPDLTHSWLMSLADLQDMSPMLLSCNGP DKLFDShKLVLNVPFSDSKRVVFCARGGNSLSYKQVLGPQCLSYEVERQPGEQEIKFYVEGL TFPDADFLGLVSLSVSLVDPGTLPEVTLFTDTVGFRMAPWIMTPNTQPPEELYVCRVMDTHGSNE KFLEDMSYLTKANCKLTICPQVENRNDRWIQDEMEFGYIEAPHSFPVVFDSRNRGLKDFPYK RILGPDFGYVTREIPLPGPSSLDSFGNLDVSPPVTVGGTEYPLGRILIGSSFPKSGGRQMARAVRN FLKAQQVQAPVELYSDWLSVGHVDEFLTFTVPTSDQKGFRLLLASPSACKLKFQEKEEGYGEAA QFDGLKHQAKRSINEMLADRHLQRDNLHAQKCIDWNRNVLKRELGLAESDMDIPQLFFLKNFYAE AFFPDMVMNMVVLGKYLGIKPYGPIINGRCCLEEKVQSLLEPLGLHCIFIDDYLSYHELQGEIHCGTN VRRKPFPPKWWNMVP
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	73
Interspecies Antigen Sequence	Mouse (77); Rat (76)
Preparation Method	in vitro wheat germ expression system
Purification	Glutathione Sepharose 4 Fast Flow
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay

- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — PADI1

Entrez GeneID [29943](#)

GeneBank Accession# [HQ258487.1](#)

Protein Accession# [ADR83241.1](#)

Gene Name PADI1

Gene Alias HPAD10, PAD1, PDI, PDI1

Gene Description peptidyl arginine deiminase, type I

Omim ID [607934](#)

Gene Ontology [Hyperlink](#)

Gene Summary 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 I enzyme is involved in the late stages of epidermal differentiation, where it deiminates filaggrin and keratin K1, which maintains hydration of the stratum corneum, and hence the cutaneous barrier function. This enzyme may also play a role in hair follicle formation. This gene exists in a cluster with four other paralogous genes. [provided by RefSeq]

Other Designations OTTHUMP00000002401|hPAD-colony 10|peptidylarginine deiminase type II|protein-arginine deiminase type-1