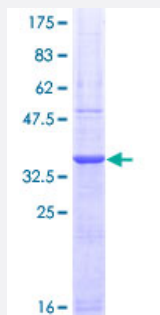


PADI2 (Human) Recombinant Protein (Q01)

Catalog # H00011240-Q01

Size 25 ug, 10 ug

Applications



Specification

Product Description	Human PADI2 partial ORF (NP_003008, 1 a.a. - 108 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	MLRERTVRLQYGSRVEAVYVLGTYLWTDVYSAAPAGAQTFLSKHSEHVWVEVVRDGEAEEVAT NGKQRWLLSPSTTLRVMTSQASTEASSDKVTNYYDEEGSIPIDQ
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	37.62
Interspecies Antigen Sequence	Mouse (88); Rat (88)
Preparation Method	in vitro wheat germ expression system
Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
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 — PADI2

Entrez GeneID [11240](#)

GeneBank Accession# [NM_007365](#)

Protein Accession# [NP_003008](#)

Gene Name PADI2

Gene Alias KIAA0994, PAD-H19, PAD2, PDI2

Gene Description peptidyl arginine deiminase, type II

Omim ID [607935](#)

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 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. [provided by RefSeq]

Other Designations OTTHUMP00000002403|OTTHUMP00000044625|peptidylarginine deiminase type II|protein arginine deiminase|protein-arginine deiminase type-2

Disease

- [Alzheimer disease](#)
- [Genetic Predisposition to Disease](#)
- [Schizophrenia](#)
- [Tobacco Use Disorder](#)