PADI2 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	PADI2, Polyclonal Antibody
Full Product Name	PADI2 Polyclonal Conjugated Antibody
Product Gene Name	anti-PADI2 antibody
Product Synonym Names	PADI2 Conjugated Antibody; PADI2; PAD-H19; PAD2; PDI2; peptidyl arginine deiminase 2
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	0.01M Sodium Phosphate, 0.25M NaCl, pH 7.6, 5mg/ml Bovine Serum Albumin, 0.02% Sodium Azide
Purity/Purification	Affinity purification
Preparation and Storage	Store at 4 degree C for 6 months.
Molecular Weight	49,310 Da
OMIM	607935
3D Structure	ModBase 3D Structure for Q9Y2J8
Immunogen	Recombinant fusion protein of human PADI2 (NP_031391.2).
Conjugation	Biotin AF350 AF405 AF488 AF555 AF594 AF647 AF680 AF750
Excitation Emission	AF350: 346nm/442nm
Applications Tested/Suitable for anti-PADI2 antibody	Most Applications
Application Notes for anti-PADI2 antibody	Suggested Dilution: AF350 conjugated: most applications: 1:50-1:250 AF405 conjugated: most applications: 1:50-1:250 AF488 conjugated: most applications: 1:50-1:250 AF555 conjugated: most applications: 1:50-1:250 AF594 conjugated: most applications: 1:50-1:250 AF647 conjugated: most applications: 1:50-1:250 AF680 conjugated: most applications: 1:50-1:250 AF750 conjugated: most applications: 1:50-1:250 Biotin conjugated: working with enzyme-conjugated streptavidin, most applications: 1:50-1:1000
Related Product Information for anti-PADI2 antibody	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.

Other Notes	Small volumes of anti-PADI2 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for PADI2 purchase	MBS9439547 is an antibody targeting PADI2. Also known as PADI2 Polyclonal Conjugated Antibody. Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PADI2. It may not necessarily be applicable to this product.

NCBI GI #	122939159
NCBI GeneID	11240
NCBI Accession #	NP_031391.2
UniProt Primary Accession #	Q9Y2J8
UniProt Secondary Accession #	Q96DA7; Q9UPN2
UniProt Related Accession #	Q9Y2J8
GenBank Nucleotide #	NM_007365.2
NCBI Official Full Name	protein-arginine deiminase type-2
NCBI Official Synonym Full Names	peptidyl arginine deiminase 2
NCBI Official Symbol	PADI2
NCBI Official Synonym Symbols	PAD2; PDI2; PAD-H19
UniProt Protein Name	Protein-arginine deiminase type-2
UniProt Synonym Protein Names	PAD-H19; Peptidylarginine deiminase II; Protein-arginine deiminase type II
Protein Family	Protein-arginine deiminase
UniProt Gene Name	PADI2
UniProt Synonym Gene Names	KIAA0994; PDI2
UniProt Entry Name	PADI2_HUMAN
NCBI Protein Information	protein-arginine deiminase type-2
UniProt Comments for PADI2	PADI2: Catalyzes the deimination of arginine residues of proteins. Belongs to the protein arginine deiminase family. Protein type: EC 3.5.3.15; Hydrolase Chromosomal Location of Human Ortholog: 1p36.13 Cellular Component: cytoplasm Molecular Function: estrogen receptor binding; calcium ion binding; protein-arginine deiminase activity Biological Process: substantia nigra development; estrogen receptor signaling pathway; chromatin-mediated maintenance of transcription; peptidyl-citrulline biosynthetic process from peptidyl-arginine
Research Articles on PADI2	**1.** Brain gene expression of PADI2, ZNF385A, PSD2, and A2ML1 and DNA methylation dysregulations are implicated in the alteration of brain tissue properties associated with late-life cognitive decline above and beyond the influence of common neuropathologic conditions.

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