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PADI2 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP14369b

Product Information

Application	WB, E
Primary Accession	Q9Y2J8
Other Accession	NP_031391.2
Reactivity	Human
Predicted	Mouse, Rat, Bovine, Canine, Rabbit
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB34224
Calculated MW	75564
Antigen Region	557-586

Additional Information

Gene ID	11240
Other Names	Protein-arginine deiminase type-2, PAD-H19, Peptidylarginine deiminase II, Protein-arginine deiminase type II, PADI2, KIAA0994, PDI2
Target/Specificity	This PADI2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 557-586 amino acids from the C-terminal region of human PADI2.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	PADI2 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	PADI2
Synonyms	KIAA0994, PAD2, PDI2

Function	Catalyzes the deimination of arginine residues of proteins.
Cellular Location	Cytoplasm.
Tissue Location	Detected in keratinocytes in epidermis (at protein level).

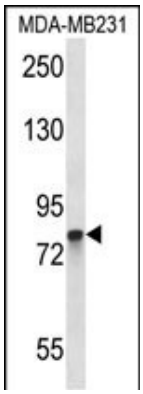
Background

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].

References

Rose, J.E., et al. Mol. Med. 16 (7-8), 247-253 (2010) :
Jang, B., et al. Acta Neuropathol. 119(2):199-210(2010)
Cafaro, T.A., et al. Mol. Vis. 16, 1654-1658 (2010) :
Hojo-Nakashima, I., et al. J. Biochem. 146(4):471-479(2009)
Watanabe, Y., et al. J. Hum. Genet. 54(7):430-432(2009)

Images



PADI2 Antibody (C-term) (Cat. #AP14369b) western blot analysis in MDA-MB231 cell line lysates (35ug/lane).This demonstrates the PADI2 antibody detected the PADI2 protein (arrow).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.