

**PADI2 Antibody (C-term) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP14369b****Specification**

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**PADI2 Antibody (C-term) Blocking Peptide - Product Information**

Primary Accession [Q9Y2J8](#)

**PADI2 Antibody (C-term) Blocking Peptide - 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

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**PADI2 Antibody (C-term) Blocking Peptide - 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).

**PADI2 Antibody (C-term) Blocking Peptide - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

**PADI2 Antibody (C-term) Blocking Peptide - Images****PADI2 Antibody (C-term) Blocking Peptide - Background**

This gene encodes a member of the peptidyl argininedeiminase 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].

**PADI2 Antibody (C-term) Blocking Peptide - 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)