

Human Protein-Arginine Deiminase Type-2 (PADI2) ELISA Kit | PADI2 elisa kit

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CATALOG #
AAA331487

REACTIVITY
Human

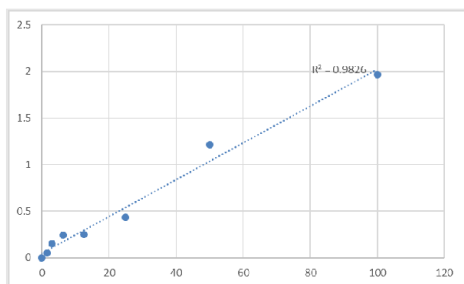
PRODUCT SYNONYMS

Protein-Arginine Deiminase Type-2 (PADI2); Human Protein-Arginine Deiminase Type-2 (PADI2) ELISA Kit; PADI2; RP1-37C10.6; KIAA0994; PAD-H19; PAD2; PDI2; peptidylarginine deiminase type; protein arginine deiminase; protein-arginine deiminase type-2; PADI2 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Human Protein-arginine deiminase type-2 (PADI2) ELISA Kit has high sensitivity and excellent specificity for detection of Human PADI2. No significant cross-reactivity or interference between Human PADI2 and analogues was observed.
Sequence Length	437
Assay Type	Sandwich ELISA (Quantitative)
Samples	Cell Culture Supernatants, Serum, Plasma, Other Biological Fluids
Detection Method	Colorimetric
Usage Notes	* Do not mix components from different kit lots or use reagents beyond the kit expiration date. * Allow all reagents to warm to room temperature for at least 30 minutes before opening. * Pre-rinse the pipet tip with reagent, use fresh pipet tips for each sample, standard and reagent to avoid contamination. * Unused wells must be kept desiccated at 4 degree C in the sealed bag provided. * Mix Thoroughly is very important for the result. It is recommended using low frequency oscillator or slight hand shaking every 10 minutes. * It is recommended that all samples and standards be assayed in duplicate or triplicate.
Preparation and Storage	Store at 2-8 degree C.

IMAGES



Standard Curve (Sample)

Fig.1. Human Protein-arginine deiminase type-2 (PADI2) Standard Curve.

ADDITIONAL INFORMATION

Related Product Information for PADI2 elisa kit	Description: This Human Protein-arginine deiminase type-2 (PADI2) ELISA Kit employs a two-site sandwich ELISA to quantitate PADI2 in samples. An antibody specific for PADI2 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any PADI2 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for PADI2 is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of PADI2 bound in the initial step. The color development is stopped and the intensity of the color is measured. Background: PADI2 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.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	16307225
NCBI GeneID	11240
UniProt Accession #	Q9Y2J8
NCBI Official Full Name	PADI2 protein
NCBI Official Synonym Full Names	peptidyl arginine deiminase 2
NCBI Official Symbol	PADI2
NCBI Official Synonym Symbols	PAD2; PDI2; PAD-H19
NCBI Protein Information	protein-arginine deiminase type-2
UniProt Protein Name	Protein-arginine deiminase type-2
UniProt Gene Name	PADI2
UniProt Synonym Gene Names	KIAA0994; PDI2
UniProt Entry Name	PADI2_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/human-elisa-kits/protein-arginine-deiminase-type-2-padi2/331487>