

Human Protein-arginine deiminase type-2 ELISA Kit | PADI2 elisa kit

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CATALOG #
AAA17655

REACTIVITY
Human

PRODUCT SYNONYMS

Protein-arginine deiminase type-2; Human Protein-arginine deiminase type-2 ELISA Kit; PADI2/PAD2/PAD-H19/PDI2/Peptidylarginine Deiminase II/EC 3.5.3.15/KIAA0994PDI2PAD2/PAD-H19/peptidylarginine deiminase type II/peptidyl arginine deiminase; type II/Peptidylarginine deiminase II/protein arginine deiminase/Protein-arginine deiminase type II/protein-arginine deiminase type-2; PADI2 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of PACAP-38. No significant cross-reactivity or interference between PACAP-38 and analogues was observed.
Sequence Length	665
Assay Type	Sandwich ELISA, Double Antibody
Samples	Serum, Plasma, Cell Culture Supernatant, cell or tissue lysate, Other liquid samples
Detection Range	78.125-5000pg/ml
Sensitivity	46.875pg/ml
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level PACAP-38 were tested 20 times on one plate, respectively. Intra-Assay: CV<8%
Inter-assay Precision	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level PACAP-38 were tested on 3 different plates, 8 replicates in each plate. CV (%) = SD/meanX100. Inter-Assay: CV<10%
Preparation and Storage	Store entire kit at 2-8C for short-term. For longer-term, please store the microplate & standard at -20C, while the remaining reagents can be stored at 2-8C

IMAGES

Typical Data & Standard Curve

Results of a typical standard operation of a PADI2 ELISA Kit are listed below. This standard curve was generated at our lab for demonstration purpose only. Users shall obtain standard curve as per experiment by themselves. (N/A=not applicable)

X	pg/ml	0	78.125	156.25	312.5	625	1250	2500	5000
Y	OD450	0.108	0.192	0.261	0.4	0.673	1.119	1.829	2.726

Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for PADI2 elisa kit

Principle of the Assay: This kit was based on sandwich enzyme-linked immune-sorbent assay technology. Anti-PACAP-38 antibody was pre-coated onto 96-well plates. And the biotin conjugated anti-PACAP-38 antibody was used as detection antibodies. The standards, test samples and biotin conjugated detection antibody were added to the wells subsequently, and washed with wash buffer. HRP-Streptavidin was added and unbound conjugates were washed away with wash buffer. TMB substrates were used to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that changed into yellow after adding acidic stop solution. The density of yellow is proportional to the PACAP-38 amount of sample captured in plate. Read the O.D. absorbance at 450nm in a microplate reader, and then the concentration of PACAP-38 can be calculated.

NCBI AND UNIPROT INFORMATION

NCBI GI #	122939159
NCBI GeneID	11240
NCBI Accession #	NP_031391.2
NCBI GenBank Nucleotide #	NM_007365.2
Molecular Weight	49,310 Da
NCBI Official Full Name	protein-arginine deiminase type-2
NCBI Official Synonym Full Names	peptidyl arginine deiminase, type II
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; PAD2; 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/padi2-human-elisa-kits/protein-arginine-deiminase-type-2/17655>