

# Datasheet for ABIN5657685

### **PAD4 ELISA Kit**



### Overview

Quantity:	96 tests
Target:	PAD4 (PADI4)
Reactivity:	Human
Method Type:	Sandwich ELISA
Detection Range:	0.312 ng/mL - 20 ng/mL
Minimum Detection Limit:	0.312 ng/mL
Application:	ELISA

### **Product Details**

Sample Type:	Plasma, Serum, Tissue Homogenate
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Specificity:	This assay has high sensitivity and excellent specificity for detection of Peptidyl Arginine  Deiminase Type IV (PADI4). No significant cross-reactivity or interference between Peptidyl  Arginine Deiminase Type IV (PADI4) and analogues was observed.
Sensitivity:	0.121 ng/mL

# **Target Details**

Target:	PAD4 (PADI4)
Alternative Name:	Peptidyl Arginine Deiminase Type IV (PADI4 Products)

# Target Details Background: Gene Name: Peptidyl Arginine Deiminase Type IV Gene Aliases: PAD, PADI5, PDI4, PDI5, Peptidyl Arginine Deiminase Type V, Peptidylarginine deiminase IV Gene ID: 23569 UniProt: Q9UM07 Application Details Comment: The stability of kit is determined by the loss rate of activity. The loss rate of this kit is less the

# The stability of kit is determined by the loss rate of activity. The loss rate of this kit is less than 5 % within the expiration date under appropriate storage condition. To minimize extra influence on the performance, operation procedures and lab conditions, especially room temperature, air humidity, incubator temperature should be strictly controlled. It is also strongly suggested that the whole assay is performed by the same operator from the beginning to the end. Assay Time: 3 h Pre-coated Plate: Protocol: The test principle applied in this kit is Sandwich enzyme immunoassay. The microtiter plate provided in this kit has been pre-coated with an antibody specific to Peptidyl Arginine Deiminase Type IV (PADI4). Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody specific to Peptidyl Arginine Deiminase Type IV (PADI4). Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, only those wells that contain Peptidyl Arginine Deiminase Type IV (PADI4), biotin-conjugated antibody and enzymeconjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm ± 10nm. The concentration of Peptidyl Arginine Deiminase Type IV (PADI4) in the samples is then determined by comparing the O.D. of the samples to the standard curve. Assay Precision: Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level Peptidyl Arginine Deiminase Type IV (PADI4) were tested 20 times on one plate, respectively Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level

Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level
Peptidyl Arginine Deiminase Type IV (PADI4) were tested 20 times on one plate, respectively
Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level
Peptidyl Arginine Deiminase Type IV (PADI4) were tested on 3 different plates, 8 replicates in
each plate. CV(%) = SD/meanX100
Intra-Assay: CV<10%
Inter-Assay: CV<12%

# **Application Details**

Restrictions:	For Research Use only
Handling	
Handling Advice:	The Stop Solution is acidic. Do not allow to contact skin or eyes. Calibrators, controls and
	specimen samples should be assayed in duplicate. Once the procedure has been started, all
	steps should be completed without interruption.
Storage:	4 °C,-20 °C
Storage Comment:	-20°C. Bring all reagents to room temperature before beginning test. The kit may be stored at
	4°C for immediate use within two days upon arrival. Reseal any unused strips with desiccant
	pack. Minimize freeze/thaw cycles.
Expiry Date:	4-8 months