Human Protein-arginine deiminase type-3 (PADI3) ELISA Kit

Catalog No: #EK8681

Package Size: #EK8681-1 48T #EK8681-2 96T

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

Description

Product Name	Human Protein-arginine deiminase type-3 (PADI3) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	hCG_25124; MGC126307; MGC126308; PAD3; PDI3; peptidylarginine deiminase III|protein-arginine deiminase type III
Accession No.	Q9ULW8
Uniprot	Q9ULW8
GeneID	51702;
Storage	The stability of ELISA 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. The loss rate was determined by accelerated thermal degradation test. Keep the kit at 37C for 4 and 7 days, and compare O.D.values of the kit kept at 37C with that of at recommended temperature. (referring from China Biological Products Standard, which was calculated by the Arrhenius equation. For ELISA kit, 4 days storage at 37C can be considered as 6 months at 2 - 8C, which means 7 days at 37C equaling 12 months at 2 - 8C).

Application Details

Detect Range:0.156-10 ng/mL

Sensitivity:0.078 ng/mL

Sample Type:Serum, Plasma, Other biological fluids

Sample Volume: 1-200 µL

Assay Time:1-4.5h

Detection wavelength:450 nm

Product Description

Detection Method:SandwichTest principle:This assay employs a two-site sandwich ELISA to quantitate PADI3 in samples. An antibody specific for PADI3 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyPADI3 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for PADI3 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 PADI3 bound in the initial step. The color development is stopped and the intensity of the color is measured.Product Overview:Peptidyl arginine deiminase, type III, also known as PADI3, is 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 III enzyme modulates hair structural proteins, such as filaggrin in the hair follicle and trichohyalin in the inner root sheath, during hair follicle formation. Together with the type I enzyme, this enzyme may also play a role in terminal differentiation of the epidermis. This gene exists in a cluster with four other paralogous genes.Hair follicles, and epidermis at very low levels.

Note: This product is for in vitro research use only