

Human Protein-arginine deiminase type-4 antibody (PADI4-Ab) ELISA Kit

Catalog No: #EK11770

Orders: order@signalwayantibody.com

Package Size: #EK11770-1 48T #EK11770-2 96T

Support: tech@signalwayantibody.com

Description

Product Name	Human Protein-arginine deiminase type-4 antibody (PADI4-Ab) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	antibody for PAD; PAD4; PADI5; PDI4; PDI5; HL-60 PAD PADI-H protein peptidyl arginine deiminase; type V protein-arginine deiminase
Accession No.	Q9UM07
Uniprot	Q9UM07
GeneID	23569;
Storage	<p>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.</p> <p>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).</p>

Application Details

Detect Range:0.312-20 ng/mL

Sensitivity:0.121 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 PADI4-Ab in samples. An antibody specific for PADI4-Ab has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyPADI4-Ab present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for PADI4-Ab 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 PADI4-Ab bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**PADI4 is a member of a gene family which encodes enzymes responsible for the conversion of arginine residues to citrulline residues. This gene may play a role in granulocyte and macrophage development leading to inflammation and immune response.The deduced 663-amino acid protein, approximately 50% identical to rat PAD types I, II, and III and 73% identical with rat keratinocyte PAD IV, is most conserved in the C terminal two-thirds of the sequence. Functional analysis indicated that the recombinant protein is fully active against arginine-containing substrates. Western blot analysis showed that expression of a 67-kD protein is induced by incubation of HL60 cells with differentiation factors.

Note: This product is for in vitro research use only