Human Protein-arginine deiminase type-6 (PADI6) ELISA Kit

Catalog No: #EK8680

Package Size: #EK8680-1 48T #EK8680-2 96T

Orders: order@signalwayantibody.com
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Description

Product Name	Human Protein-arginine deiminase type-6 (PADI6) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	Peptidylarginine deiminase type 6
Accession No.	Q6TGC4
Uniprot	Q6TGC4
GeneID	353238;
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:0.062ng/m

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 PADI6 in samples. An antibody specific for PADI6 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyPADI6 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for PADI6 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 PADI6 bound in the initial step. The color development is stopped and the intensity of the color is measured.Product Overview:Peptidylarginine deiminases (PADs) convert arginine residues in proteins into citrullines. Peptidylarginine deiminases (PADs, EC 3.5.3.15), including PADI6, make up a family of posttranslational protein modification enzymes that convert arginine residues to citrulline residues in the presence of calcium ions.

PADI6,The deduced 694-amino acid protein has a calculated molecular mass of 77.7 kD. RT-PCR detected expression in adult human tissues, including ovary, peripheral blood leukocytes, and testis, with weaker expression in small intestine, spleen, lung, liver, and skeletal muscle. No expression was detected in other tissues examined. The order of the genes is p-telomere--PADI2--PADI1--PADI3--PADI4--PADI6. Mouse Padi6 maps to a syntenic Pad cluster on chromosome 4E1.

Note: This product is for in vitro research use only