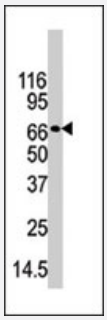
PADI4 polyclonal antibody

Catalog # PAB2519 Size 400 uL

Applications



Western Blot (Cell lysate)

Western blot analysis of PADI4 polyclonal antibody (Cat # PAB2519) in 293 cell line lysate. PAD4 (arrow) was detected using the purified polyclonal antibody.

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of PADI4.
Immunogen	A synthetic peptide (conjugated with KLH) corresponding to C-terminus of human PADI4.
Host	Rabbit
Reactivity	Human
Form	Liquid
Purification	Ammonium sulfate precipitation
Recommend Usage	Western Blot (1:1000) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (0.09% sodium azide)
Storage Instruction	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

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Applications

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Gene Info — PADI4

Entrez GeneID	23569
Protein Accession#	NP_036519;Q9UM07
Gene Name	PADI4
Gene Alias	PAD, PAD4, PADI5, PDI4, PDI5
Gene Description	peptidyl arginine deiminase, type IV
Omim ID	180300 605347
Gene Ontology	Hyperlink
Gene Summary	This gene is a member of a gene family which encodes enzymes responsible for the conversion o f arginine residues to citrulline residues. This gene may play a role in granulocyte and macrophag e development leading to inflammation and immune response. [provided by RefSeq
Other Designations	HL-60 PAD|OTTHUMP00000002482|PADI-H protein|peptidyl arginine deiminase, type V|protein-arginine deiminase

Publication Reference

- Comparison of enzymatic properties between hPADI2 and hPADI4.

  Nakayama-Hamada M, Suzuki A, Kubota K, Takazawa T, Ohsaka M, Kawaida R, Ono M, Kasuya A, Furukawa H, Yamada R, Yamamoto K.

  Biochemical and Biophysical Research Communications 2005 Feb; 327(1):192.

  Application: IHC-P, Human, Human rheumatoid arthritis synovium

- Human PAD4 regulates histone arginine methylation levels via demethylimination.

  Wang Y, Wysocka J, Sayegh J, Lee YH, Perlin JR, Leonelli L, Sonbuchner LS, McDonald CH, Cook RG, Dou Y, Roeder RG, Clarke S, Stallcup MR, Allis CD, Coonrod SA.

  Science 2004 Sep; 306(5694):279.

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- A functional haplotype of the PADI4 gene associated with rheumatoid arthritis in a Japanese population is not associated in a United Kingdom population.

  Barton A, Bowes J, Eyre S, Spreckley K, Hinks A, John S, Worthington J.

  Arthritis and Rheumatism 2004 Apr; 50(4):1117.

Disease

- Arthritis
- Asthma
- Autoimmune Diseases
- Carcinoma
- Chronic Disease
- Colitis
- Crohn Disease
- Diabetes Mellitus
- Disease Progression
- Disease Susceptibility
- Genetic Predisposition to Disease
- Graft vs Host Disease
- Immune System Diseases
- Malignant melanoma
- Melanoma
- Multiple Sclerosis
- Rheumatic Diseases
- Schizophrenia
- Skin Neoplasms

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