Datasheet for ABIN2785937

anti-PAD4 antibody (Middle Region)

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Overview

Quantity:	100 µL
Target:	PAD4 (PADI4)
Binding Specificity:	Middle Region
Reactivity:	Human, Rat, Mouse, Rabbit, Cow, Dog, Guinea Pig, Horse, Pig, Sheep, Zebrafish (Danio rerio)
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PAD4 antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Immunogen:	The immunogen is a synthetic peptide directed towards the middle region of human PADI4
Sequence:	TGGISGLDSF GNLEVSPPVT VRGKEYPLGR ILFGDSCYPS NDSRQMHQAL
Predicted Reactivity:	Cow: 93%, Dog: 100%, Guinea Pig: 87%, Horse: 93%, Human: 100%, Mouse: 100%, Pig: 93%, Rabbit: 86%, Rat: 100%, Sheep: 79%, Zebrafish: 86%
Characteristics:	This is a rabbit polyclonal antibody against PADI4. It was validated on Western Blot using a cell lysate as a positive control.
Purification:	Affinity Purified

Target Details

Target:	PAD4 (PADI4)

Target Details

Alternative Name:	PADI4 (PADI4 Products)
Background:	PADI4 is an enzyme responsible for the conversion of arginine residues to citrulline residues. This protein may play a role in granulocyte and macrophage development leading to inflammation and immune response.This gene 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. Publication Note: This RefSeq record includes a subset of the publications that are available for this gene. Please see the Entrez Gene record to access additional publications. Alias Symbols: PAD, PADI5, PDI4, PDI5, PAD4 Protein Interaction Partner: ANXA4, FBXO25, APP, ING4, ELK1, NPM1, TP53, HDAC2, HIST2H3A, HDAC1, TFF1, HIST4H4, HIST3H3, Protein Size: 663
Molecular Weight:	74 kDa
Gene ID:	23569
NCBI Accession:	NM_012387, NP_036519
UniProt:	Q9UM07

Application Details

Application Notes:	Optimal working dilutions should be determined experimentally by the investigator.
Comment:	Antigen size: 663 AA
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	Lot specific
Buffer:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09 % (w/v) sodium azide and 2 % sucrose.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

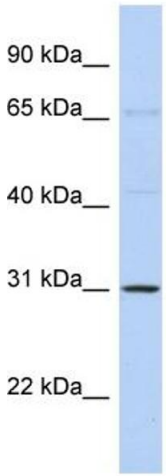
Handling

Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-20 °C
Storage Comment:	For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.

Publications

Product cited in:	Costenbader, Chang, De Vivo, Plenge, Karlson: "Genetic polymorphisms in PTPN22, PADI-4, and CTLA-4 and risk for rheumatoid arthritis in two longitudinal cohort studies: evidence of gene-environment interactions with heavy cigarette smoking." in: **Arthritis research & therapy**, Vol. 10, Issue 3, pp. R52, (2008) (PubMed).

Images



Host: Rabbit
Target Name: PADI4
Sample Tissue: 721_B Cell Lysate
Antibody Dilution: 1.0µg/ml

Western Blotting

Image 1. Host: Rabbit Target Name: PADI4 Sample Type: 721_B Cell lysates Antibody Dilution: 1.0ug/ml There is BioGPS gene expression data showing that PADI4 is expressed in 721_B