



Datasheet for ABIN2785937

## anti-PAD4 antibody (Middle Region)



1 Image

1 Publication

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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 ( <i>Danio rerio</i> )
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 GNLEVSPVVT 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)
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## Target Details

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Alternative Name:	PADI4 ( <a href="#">PADI4 Products</a> )
Background:	<p>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.</p> <p>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.</p>
	<p>Alias Symbols: PAD, PADI5, PDI4, PDI5, PAD4</p>
	<p>Protein Interaction Partner: ANXA4, FBXO25, APP, ING4, ELK1, NPM1, TP53, HDAC2, HIST2H3A, HDAC1, TFF1, HIST4H4, HIST3H3,</p>
	<p>Protein Size: 663</p>
Molecular Weight:	74 kDa
Gene ID:	23569
NCBI Accession:	<a href="#">NM_012387</a> , <a href="#">NP_036519</a>
UniProt:	<a href="#">Q9UM07</a>

## Application Details

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

## Handling

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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.

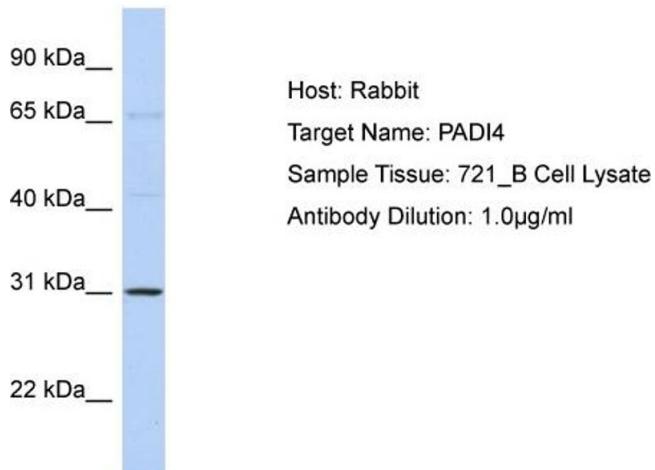
## Handling

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: Gerhard, Wagner, Feingold, Shenmen, Grouse, Schuler, Klein, Old, Rasooly, Good, Guyer, Peck, Derge, Lipman, Collins, Jang, Sherry, Feolo, Misquitta, Lee, Rotmistrovsky, Greenhut, Schaefer, Buetow et al.: "The status, quality, and expansion of the NIH full-length cDNA project: the Mammalian Gene Collection (MGC). ..." in: **Genome research**, Vol. 14, Issue 10B, pp. 2121-7, (2004) ([PubMed](#)).

## Images



### 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