abcam

Product datasheet

Anti-PADI2 / PAD2 antibody ab16478

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Overview

Product name	Anti-PADI2 / PAD2 antibody
Description	Rabbit polyclonal to PADI2 / PAD2
Host species	Rabbit
Specificity	ab16478 recognises a specific 75kDa band corresponding to PADI2, which is specifically blocked using the immunizing peptide in human colon, skeletal muscle and kidney lysates. There is a non-specific 18kDa band present in skeletal muscle lysates, which is attributed to cross-reactivity of the PADI2 antibody. Replenishment batches of ab16478 are tested in WB. Previous batches were additionally validated in ELISA, Flow Cyt, ICC/IF and IHC-P. These applications are still expected to work and are covered by our Abpromise guarantee.
Tested applications	**Suitable for:** IHC-P, ELISA, ICC/IF, Flow Cyt, WB
Species reactivity	**Reacts with:** Rat, Human
Immunogen	Synthetic peptide corresponding to Human PADI2/ PAD2 aa 100-200 (internal sequence) conjugated to keyhole limpet haemocyanin. (Peptide available as **ab17091**)
General notes	The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.40 Preservative: 0.02% Sodium azide Constituent: PBS

Batches of this product that have a concentration < 1mg/ml may have BSA added as a stabilising agent. If you would like information about the formulation of a specific lot, please contact our scientific support team who will be happy to help.

Purity Immunogen affinity purified

Clonality Polyclonal

Isotype IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab16478 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-P		Use at an assay dependent concentration.
ELISA		Use at an assay dependent concentration. PubMed: 19085382
ICC/IF		Use a concentration of 5 µg/ml.
Flow Cyt	★★★★★ (1)	Use at an assay dependent concentration. **ab171870** - Rabbit polyclonal IgG, is suitable for use as an isotype control with this antibody.
WB	★★☆☆☆ (1)	Use a concentration of 1 µg/ml. Detects a band of approximately 75 kDa (predicted molecular weight: 76 kDa).

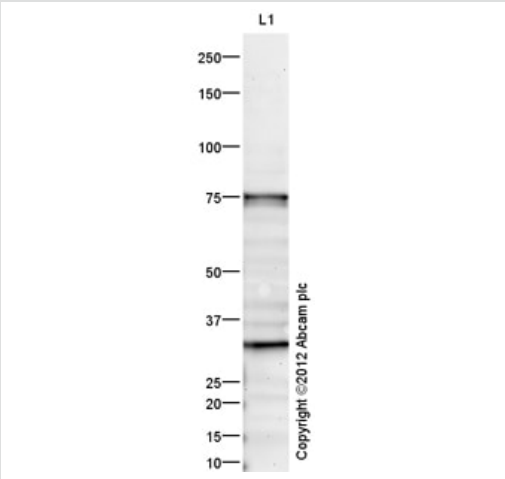
Target

Function Catalyzes the deimination of arginine residues of proteins.

Sequence similarities Belongs to the protein arginine deiminase family.

Cellular localization Cytoplasm.

Images



Western blot - Anti-PADI2 / PAD2 antibody (ab16478)

Anti-PADI2 / PAD2 antibody (ab16478) at 1 µg/ml + Human kidney tissue lysate - total protein (**ab30203**) at 20 µg

Secondary

Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/10000 dilution

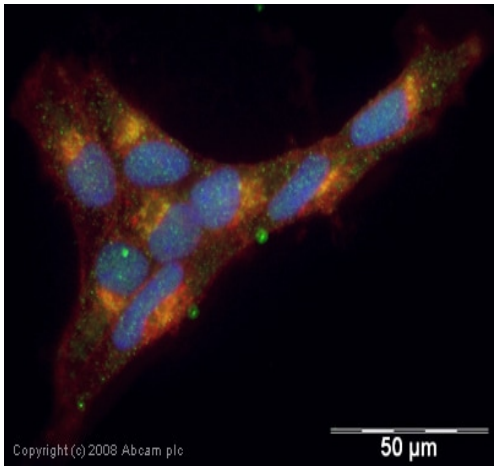
Developed using the ECL technique.

Performed under reducing conditions.

Predicted band size: 76 kDa
Observed band size: 75 kDa
Additional bands at: 34 kDa. We are unsure as to the identity of these extra bands.

Exposure time: 20 minutes

This blot was produced using a 10% Bis-tris gel under the MOPS buffer system. The gel was run at 200V for 50 minutes before being transferred onto a Nitrocellulose membrane at 30V for 70 minutes. The membrane was then blocked for an hour using 5% Bovine Serum Albumin before being incubated with ab16478 overnight at 4°C. Antibody binding was detected using an anti-rabbit antibody conjugated to HRP, and visualised using ECL development solution. The 75-kDa band observed is consistent with what has been described in the literature (PMID:18668562; 20668670; 16723463).



Immunocytochemistry/ Immunofluorescence - Anti-PADI2 / PAD2 antibody (ab16478)

ICC/IF image of ab16478 stained human Hek293 cells. The cells were PFA fixed (10 min), permabilised in 0.1% PBS-Tween (20 min) and incubated with the antibody (ab16478, 5µg/ml) for 1h at room temperature. 1%BSA / 10% normal goat serum / 0.3M glycine was used to block non-specific protein-protein interactions. The secondary antibody (green) was Alexa Fluor® 488 goat anti-rabbit IgG (H+L) used at a 1/1000 dilution for 1h. Alexa Fluor® 594 WGA was used to label plasma membranes (red). DAPI was used to stain the cell nuclei (blue).

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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