


Product datasheet

Anti-PDCD4 antibody ab51495

★★★★★ [6 Abreviews](#) [37 References](#) [3 Images](#)

Overview

Product name	Anti-PDCD4 antibody
Description	Rabbit polyclonal to PDCD4
Host species	Rabbit
Specificity	ab51495 reacts with PDCD4 protein that is either phosphorylated or non phosphorylated at Ser 457.
Tested applications	Suitable for: WB, IHC-P
Species reactivity	Reacts with: Mouse, Human Predicted to work with: Rat, Xenopus laevis 
Immunogen	A synthetic peptide corresponding to amino acids near the carboxyl terminus of human PDCD4 protein
Positive control	WB: 293 HEK cells, Mouse N2A cell Lysate. IHC-P: Mouse colon tissue.
General notes	<p>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.</p> <p>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</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Storage buffer	Preservative: 0.01% Sodium azide Constituents: 0.42% Potassium phosphate, 0.87% Sodium chloride
Purity	Immunogen affinity purified
Purification notes	ab51495 was affinity purified from monospecific antiserum by immunoaffinity chromatography.
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab51495 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
WB	★★★★★ (4)	1/1000 - 1/10000. Predicted molecular weight: 52 kDa.
IHC-P		1/100 - 1/300.

Target

Function

Inhibits translation initiation and cap-dependent translation. May exert its function by hindering the interaction between EIF4A1 and EIF4G. Inhibits the helicase activity of EIF4A. Modulates the activation of JUN kinase. Down-regulates the expression of MAP4K1, thus inhibiting events important in driving invasion, namely, MAPK85 activation and consequent JUN-dependent transcription. May play a role in apoptosis. Tumor suppressor. Inhibits tumor promoter-induced neoplastic transformation. Binds RNA.

Tissue specificity

Up-regulated in proliferative cells. Highly expressed in epithelial cells of the mammary gland. Reduced expression in lung cancer and colon carcinoma.

Sequence similarities

Belongs to the PDCD4 family.
Contains 2 MI domains.

Domain

Binds EIF4A1 via both MI domains.

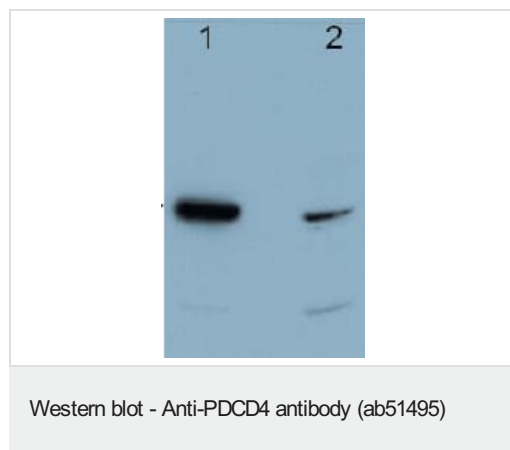
Post-translational modifications

Polyubiquitinated, leading to its proteasomal degradation. Rapidly degraded in response to mitogens. Phosphorylation of the phosphodegron promotes interaction with BTRC and proteasomal degradation.

Cellular localization

Nucleus. Cytoplasm. Shuttles between the nucleus and cytoplasm. Predominantly nuclear under normal growth conditions, and when phosphorylated at Ser-457. Exported from the nucleus in the absence of serum.

Images



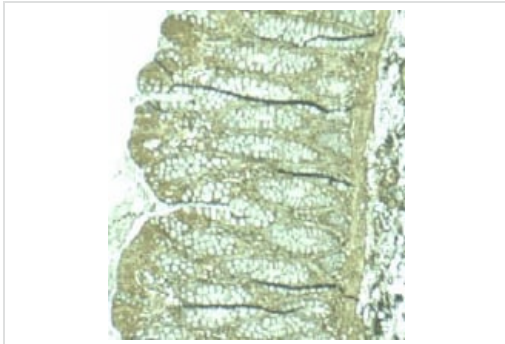
All lanes : Anti-PDCD4 antibody (ab51495) at 1/5000 dilution

Lane 1 : recombinant PDCD4

Lane 2 : 293 HEK cells treated with TPA and MG132.

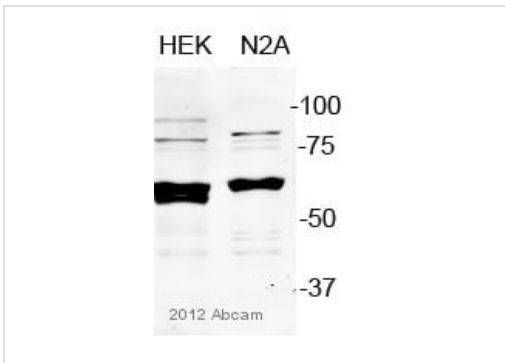
Predicted band size: 52 kDa

Observed band size: 52 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PDCCD4 antibody (ab51495)

ab51495, at 1/100 dilution, staining human PDCCD4 in paraformaldehyde fixed (4%), paraffin embedded mouse colon tissue by Immunohistochemistry.



Western blot - Anti-PDCCD4 antibody (ab51495)
This image is courtesy of an anonymous Abreview

All lanes : Anti-PDCCD4 antibody (ab51495) at 1/1000 dilution

Lane 1 : Human HEK cell Lysate at 30 ug/ml

Lane 2 : Mouse N2A cell Lysate at 30 ug/ml

Secondary

All lanes : Li-Cor IRDye®800CW-conjugated Goat anti rabbit

Predicted band size: 52 kDa

13% SDS-Page gel used, Blocking done for 1 hour at RT, Primary Incubation overnight at 4°C.

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

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