

Product datasheet

Anti-PDCD4 antibody ab190169

[2 Images](#)

Overview

Product name	Anti-PDCD4 antibody
Description	Goat polyclonal to PDCD4
Host species	Goat
Specificity	ab190169 is expected to recognize all reported isoforms (NP_055271.2; NP_663314.1; NP_001186421.1).
Tested applications	Suitable for: WB, IHC-P
Species reactivity	Reacts with: Human Predicted to work with: Mouse, Rat, Rabbit, Goat, Horse, Chicken, Guinea pig, Hamster, Cow, Dog, Pig, Chimpanzee, Orangutan 
Immunogen	Synthetic peptide corresponding to Human PDCD4 aa 210-221 (internal sequence) (Cysteine residue). (NP_055271.2). Sequence: EGKASHREMTSK Database link: Q53EL6  Run BLAST with  Run BLAST with
Positive control	HeLa cell lysate; Human prostate tissue.

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 long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.3 Preservative: 0.02% Sodium azide Constituents: 0.5% BSA, 99% Tris buffered saline
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab190169** in the following tested applications.

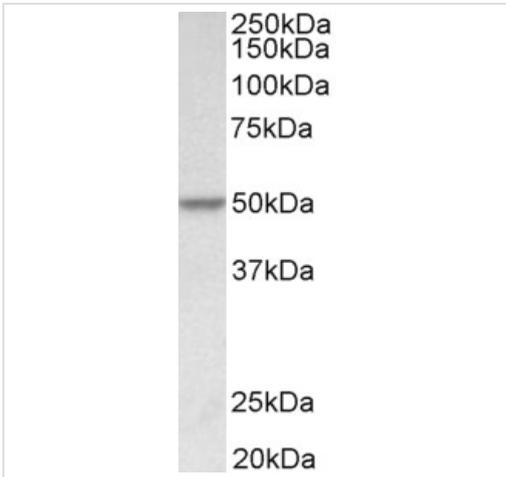
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		Use a concentration of 0.1 - 0.3 µg/ml. Detects a band of approximately 50 kDa (predicted molecular weight: 51 kDa).
IHC-P		Use a concentration of 5 µg/ml.

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



Western blot - Anti-PDCD4 antibody (ab190169)

Anti-PDCD4 antibody (ab190169) at 0.1 µg/ml + HeLa cell lysate (in RIPA buffer) at 35 µg

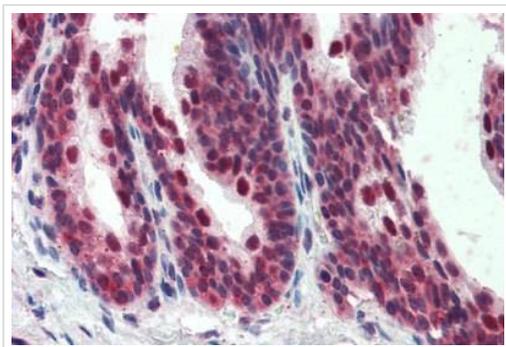
Developed using the ECL technique.

Predicted band size: 51 kDa

Observed band size: 50 kDa

[why is the actual band size different from the predicted?](#)

Primary incubation was 1 hour.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PDCD4 antibody (ab190169)

Immunohistochemical analysis of formalin-fixed, paraffin-embedded Human prostate tissue labeling PDCD4 with ab190169 at 5 µg/ml.

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