


Anti-PDCD4 (phospho S457) antibody [9G6] ab105998

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Overview

Product name	Anti-PDCD4 (phospho S457) antibody [9G6]
Description	Mouse monoclonal [9G6] to PDCD4 (phospho S457)
Host species	Mouse
Specificity	ab105998 is specific for Human PDCD4 protein phosphorylated at Ser457. Cross-reactivity with PDCD4 from other sources has not been determined.
Tested applications	Suitable for: WB, IHC-P
Species reactivity	Reacts with: Mouse, Human Predicted to work with: Rat, Xenopus laevis 
Immunogen	Synthetic peptide corresponding to Human PDCD4 (phospho S457).
Positive control	NIH-3T3 cells stimulated with PDGF, Recombinant PDCD4 protein, Human small intestine 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. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term.
Storage buffer	Preservative: 0.01% Sodium azide Constituents: 0.42% Potassium phosphate, 0.88% Sodium chloride
Purity	Protein A purified
Purification notes	Purified from concentrated tissue culture supernate by Protein A chromatography.
Clonality	Monoclonal
Clone number	9G6
Isotype	IgG1

Applications

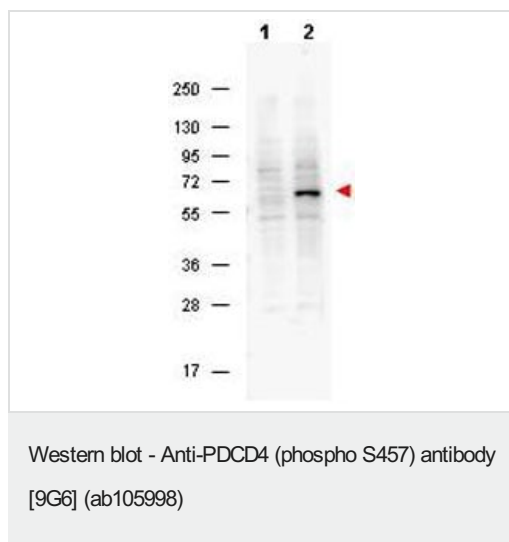
The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab105998 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/2000 - 1/10000. Predicted molecular weight: 62 kDa.
IHC-P		1/1000 - 1/5000.

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 (phospho S457) antibody [9G6] (ab105998) at 1/2000 dilution

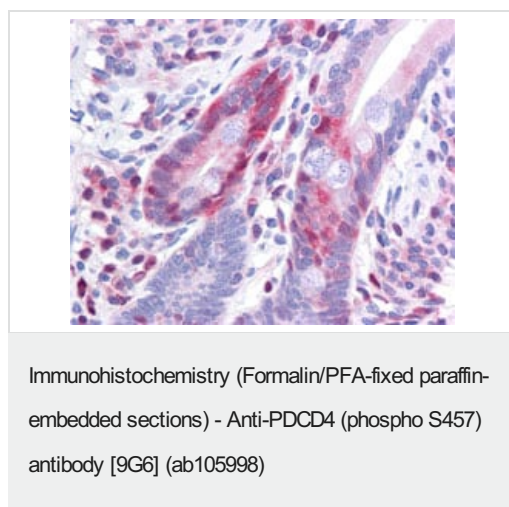
Lane 1 : Unstimulated (non-phosphorylated) NIH 3T3 cells

Lane 2 : NIH-3T3 cells stimulated with 30 ng/ml PDGF (5 min treatment)

Secondary

All lanes : HRP conjugated Rabbit anti-Mouse IgG at 1/20000 dilution

Predicted band size: 62 kDa



ab105998 at 1/1000 dilution staining PDCD4 in Human small intestine by Immunohistochemistry Formalin-fixed, Paraffin-embedded tissue.

The image shows the localization of ab105998 as the precipitated red signal, with a hematoxylin purple nuclear counterstain.

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