

## Datasheet: AHP1365

<b>Description:</b>	RABBIT ANTI HUMAN PDCD4 (C-TERMINAL)
<b>Specificity:</b>	PDCD4 (C-TERMINAL)
<b>Other names:</b>	PROGRAMMED CELL DEATH 4
<b>Format:</b>	Purified
<b>Product Type:</b>	Polyclonal Antibody
<b>Isotype:</b>	Polyclonal IgG
<b>Quantity:</b>	50 µg

## Product Details

### Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit [www.bio-rad-antibodies.com/protocols](http://www.bio-rad-antibodies.com/protocols).

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry			▪	
Immunohistology - Frozen			▪	
Immunohistology - Paraffin (1)	▪			1/100 - 1/300
ELISA	▪			1/10000 - 1/50000
Western Blotting	▪			1/1000 - 1/10000
Functional Assays			▪	

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

**(1) This product requires protein digestion pre-treatment of paraffin sections e.g. trypsin or pronase.**

<b>Target Species</b>	Human
<b>Species Cross Reactivity</b>	Based on sequence similarity, is expected to react with: Rat, Mouse, Xenopus <b>N.B.</b> Antibody reactivity and working conditions may vary between species.
<b>Product Form</b>	Purified IgG - liquid
<b>Antiserum Preparation</b>	Antisera to Pdc4 (CT) were raised by repeated immunisations of rabbits with highly purified antigen. Purified IgG was prepared by affinity chromatography.
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	0.01% Sodium Azide (NaN <sub>3</sub> )
<b>Approx. Protein Concentrations</b>	IgG concentration 1.0mg/ml

**Immunogen** Synthetic peptide corresponding to amino acids near the carboxy terminal of human Pdc4.

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**External Database Links**

**UniProt:**  
[Q53EL6](#) [Related reagents](#)

**Entrez Gene:**  
[27250](#) PDCD4 [Related reagents](#)

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**Synonyms** H731

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**Specificity** **Rabbit anti Human PDCD4 antibody** recognizes the carboxy-terminal region of programmed cell death 4 (Pdc4), a novel tumour suppressor. Pdc4 interacts with the RNA helicase eIF4A and the scaffolding protein eIF4G, two components of the translation initiation complex, and thus inhibits protein synthesis. Pdc4 has also been shown to inhibit transcription factor activator protein-1 (AP-1), which regulates several events required for cell invasion, including expression of matrix metalloproteinases and cell motility.

Pdc4 localizes to the nucleus in proliferating cells, and its expression is modulated by cytokines in natural killer and T cells. Pdc4 expression is down regulated with tumour progression in carcinomas of the lung, colon, prostate and breast.

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**Histology Positive Control Tissue** Mouse colon.

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**Western Blotting** AHP1365 detects a band of approximately 52kDa.

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**References** 1. Palamarchuk, A. *et al.* (2005) Akt phosphorylates and regulates Pdc4 tumor suppressor protein. [Cancer Res. 65 \(24\): 11282-6.](#)

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**Storage** Store at +4°C or at -20°C if preferred.  
Storage in frost-free freezers is not recommended.  
This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

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**Shelf Life** 18 months from date of despatch.

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**Health And Safety Information** Material Safety Datasheet documentation available at:  
Material Safety Datasheet Documentation #10040 available at:  
<https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf>

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**Regulatory** For research purposes only

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## Related Products

### Recommended Secondary Antibodies

Sheep Anti Rabbit IgG (STAR34...) [FITC](#)  
Sheep Anti Rabbit IgG (STAR35...) [RPE](#)  
Goat Anti Rabbit IgG (H/L) (STAR124...) [HRP](#)  
Goat Anti Rabbit IgG (Fc) (STAR121...) [Biotin](#), [FITC](#), [HRP](#)

Sheep Anti Rabbit IgG (2AB02...)

[Biotin](#)

Sheep Anti Rabbit IgG (STAR36...)

[DyLight®488](#), [DyLight®549](#), [DyLight®649](#),  
[DyLight®680](#), [DyLight®800](#)

## Recommended Useful Reagents

[ANTIGEN RETRIEVAL BUFFER, pH8.0 \(BUF025A\)](#)

[ANTIGEN RETRIEVAL BUFFER, pH8.0 \(BUF025C\)](#)

[TidyBlot™ WESTERN BLOT DETECTION REAGENT:HRP \(STAR209P\)](#)

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