

## Datasheet: AHP2128

<b>Description:</b>	GOAT ANTI HUMAN CD274 (C-TERMINAL)
<b>Specificity:</b>	CD274 (C-TERMINAL)
<b>Other names:</b>	PD-L1
<b>Format:</b>	Purified
<b>Product Type:</b>	Polyclonal Antibody
<b>Isotype:</b>	Polyclonal IgG
<b>Quantity:</b>	0.1 mg

## 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)	▪			4.0 - 6.0ug/ml
ELISA	▪			1/8000
Immunoprecipitation			▪	
Western Blotting	▪			0.3 - 1.0ug/ml

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 antigen retrieval using heat treatment prior to staining of paraffin sections. Sodium citrate buffer pH 6.0 is recommended for this purpose.**

**Target Species** Human

**Product Form** Purified IgG - liquid

**Antiserum Preparation** Antiserum to human CD274 (CT) was raised by repeated immunisation of goats with highly purified antigen. Purified IgG was prepared by affinity chromatography.

**Buffer Solution** TRIS buffered saline

**Preservative** 0.02% Sodium Azide (NaN<sub>3</sub>)  
**Stabilisers** 0.5% Bovine Serum Albumin

**Approx. Protein Concentrations** IgG concentration 0.5mg/ml

**Immunogen** Synthetic peptide sequence CKKQSDTHLEET from the C-Terminal region of CD274 (NP\_054862.1).

**External Database  
Links**

**UniProt:**

[Q9NZQ7](#)    [Related reagents](#)

**Entrez Gene:**

[29126](#)    CD274    [Related reagents](#)

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**Synonyms**            B7H1, PDCD1L1, PDCD1LG1, PDL1

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**Specificity**            **Goat anti Human CD274 antibody** recognizes an epitope within the C-terminal (CT) region of human CD274, otherwise known as PD-L1, a cell surface glycoprotein and member of the B7 family of co-stimulatory molecules, constitutively expressed on macrophages and dendritic cells, and inducible on activated T-cells, B-cells, endothelial cells and epithelial cells, in response to interferons.

CD274 acts as both a co-stimulatory and co-inhibitory molecule, co-stimulating early T cell priming, differentiation and IL-10 production, and inhibiting T cell proliferation and TCR-mediated activation of IL-2 production, through interaction with the receptor CD279/PD-1.

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**Histology Positive  
Control Tissue**            Human skeletal muscle

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**Western Blotting**            AHP2128 detects a band of approximately 35kDa in human heart cell lysates.

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**References**            1. Duchnowska, R. *et al.* (2016) Immune response in breast cancer brain metastases and their microenvironment: the role of the PD-1/PD-L axis. [Breast Cancer Res. 18 \(1\): 43.](#)

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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 #10058 available at:  
10058: <https://www.bio-rad-antibodies.com/uploads/MSDS/10058.pdf>

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**Regulatory**            For research purposes only

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## Related Products

### Recommended Secondary Antibodies

Rabbit Anti Goat IgG (Fc) (STAR122...) [FITC](#), [HRP](#)

### Recommended Useful Reagents

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

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

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