

Datasheet: AHP1704

Description:	RABBIT ANTI HUMAN CD273
Specificity:	CD273
Other names:	PD-L2
Format:	Purified
Product Type:	Polyclonal Antibody
Isotype:	Polyclonal IgG
Quantity:	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.

	Yes	No	Not Determined	Suggested Dilution
Immunohistology - Paraffin (1)	▪			2.5ug/ml
Western Blotting	▪			0.5 - 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
Species Cross Reactivity	Reacts with: Mouse, Rat N.B. Antibody reactivity and working conditions may vary between species.
Product Form	Purified IgG - liquid
Antiserum Preparation	Antisera to Human CD273 were raised by repeated immunisation of rabbits with highly purified antigen. Purified IgG prepared from whole serum by affinity chromatography.
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.02% Sodium Azide (NaN ₃)
Approx. Protein Concentrations	IgG concentration 1.0mg/ml
Immunogen	A peptide corresponding to a 16 amino acid sequence from near the centre of Human CD273.

**External Database
Links**

UniProt:

[Q9BQ51](#) [Related reagents](#)

Entrez Gene:

[80380](#) PDCD1LG2 [Related reagents](#)

Synonyms

B7DC, CD273, PDCD1L2, PDL2

Specificity

Rabbit anti Human CD273 antibody recognizes human CD273, also known as B7-DC and Programmed Death Ligand 2 (PD-L2). CD273 is a single-pass type 1 membrane protein belonging to the immunoglobulin receptor superfamily, and is a ligand for CD279 (PD-1).

CD273 is highly expressed in the tissues of the heart, liver, lung, placenta and pancreas. It is expressed in dendritic cells, and its expression can be induced on inflammatory macrophages when activated by interleukin 4 or Th2 cells.

CD273 functions to inhibit T-cell proliferation by blocking cell cycle progression and cytokine production, and is particularly important in the maintenance of self tolerance.

**Histology Positive
Control Tissue**

Mouse brain tissue

Western Blotting

AHP1704 detects a band of approximately 30kDa in Raji cell lysate

Further Reading

1. Zhang, Y. *et al.* (2006) Regulation of T cell activation and tolerance by PDL2. [Proc Natl Acad Sci U S A. 103 \(31\): 11695-700.](#)
2. LaGier, A.J. & Poher, J.S. (2006) Immune accessory functions of human endothelial cells are modulated by overexpression of B7-H1 (PDL1). [Hum Immunol. 67 \(8\): 568-78.](#)
3. Ishida, Y. *et al.* (1992) Induced expression of PD-1, a novel member of the immunoglobulin gene superfamily, upon programmed cell death. [EMBO J. 11 \(11\): 3887-95.](#)
4. Holling, T.M. *et al.* (2004) Function and regulation of MHC class II molecules in T-lymphocytes: of mice and men. [Hum Immunol. 65 \(4\): 282-90.](#)

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.

Shelf Life

18 months from date of despatch.

**Health And Safety
Information**

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

Regulatory

For research purposes only

Related Products

Recommended Secondary Antibodies

Sheep Anti Rabbit IgG (STAR54...) [HRP](#)

Recommended Useful Reagents

[HISTAR DETECTION SYSTEM \(STAR3000A\)](#)
[ANTIGEN RETRIEVAL BUFFER, pH8.0 \(BUF025A\)](#)
[ANTIGEN RETRIEVAL BUFFER, pH8.0 \(BUF025C\)](#)
[TidyBlot™ WESTERN BLOT DETECTION REAGENT:HRP \(STAR209P\)](#)

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