

**Anti-B7-DC antibody**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP50869****Specification**

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**Anti-B7-DC antibody - Product Information**

Application	WB, IHC-P
Primary Accession	<a href="#">Q9BQ51</a>
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	31kDa, 21kDa
Antigen Region	41-150/273

**Anti-B7-DC antibody - Additional Information****Gene ID** 80380**Other Names**

Programmed cell death 1 ligand 2, PD-1 ligand 2, PD-L2, PDCD1 ligand 2, Programmed death ligand 2, Butyrophilin B7-DC, B7-DC, CD273, PDCD1LG2, B7DC, CD273, PDCD1L2, PDL2

**Dilution**WB~ 1:1000  
IHC-P~ 1:100~1:500**Format**

0.01M TBS(pH7.4), 0.09% (W/V) sodium azide and 50% Glyce

**Storage**

Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

**Anti-B7-DC antibody - Protein Information****Name** PDCD1LG2**Synonyms** B7DC, CD273, PDCD1L2, PDL2**Function**

Involved in the costimulatory signal, essential for T-cell proliferation and IFNG production in a PDCD1-independent manner. Interaction with PDCD1 inhibits T-cell proliferation by blocking cell cycle progression and cytokine production (By similarity).

**Cellular Location**

[Isoform 3]: Secreted [Isoform 1]: Cell membrane; Single-pass type I membrane protein {ECO:0000250|UniProtKB:Q9WUL5, ECO:0000305|PubMed:15340161}

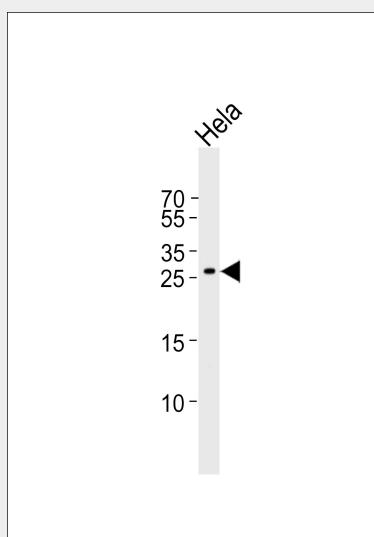
**Tissue Location**

Highly expressed in heart, placenta, pancreas, lung and liver and weakly expressed in spleen, lymph nodes and thymus

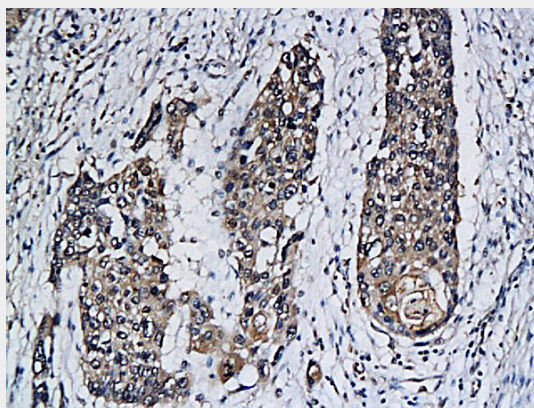
**Anti-B7-DC antibody - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**Anti-B7-DC antibody - Images**

Western blot analysis of lysate from Hela cell line, using Anti-B7-DC antibody (AP50869). AP50869 was diluted at 1:1000. A goat anti-rabbit IgG H&L(HRP) at 1:10000 dilution was used as the secondary antibody. Lysate at 35ug.



Formalin-fixed and paraffin embedded human cervical cancer labeled with

Anti-B7-DC/CD273/PDL2, Unconjugated (AP50869) followed by conjugation to the secondary antibody

#### **Anti-B7-DC antibody - Background**

B7DC is a 33kDa member of the immunoglobulin receptor superfamily expressed on DC, liver and a small subset of macrophages as well as a few transformed cell lines. B7DC has been reported to be stimulatory on dendritic cells when cross linked and to inhibit T cell activation upon engaging the PD1 receptor. B7DC has also been reported to bind to an alternative receptor and to mediate T cell activation through non PD1 mediated interactions

#### **Anti-B7-DC antibody - References**

Tseng S.-Y.,et al.J. Exp. Med. 193:839-846(2001).  
Latchman Y.,et al.Nat. Immunol. 2:261-268(2001).  
He X.-H.,et al.Acta Biochim. Biophys. Sin. 36:284-289(2004).  
Humphray S.J.,et al.Nature 429:369-374(2004).  
Zhang Z.,et al.Protein Sci. 13:2819-2824(2004).