

## Product datasheet

# Anti-PD-L1 antibody [BLR020E] ab243877

Recombinant

7 Images

### Overview

---

<b>Product name</b>	Anti-PD-L1 antibody [BLR020E]
<b>Description</b>	Rabbit monoclonal [BLR020E] to PD-L1
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> WB, ICC/IF, IHC-P, IP
<b>Species reactivity</b>	<b>Reacts with:</b> Human
<b>Immunogen</b>	Synthetic peptide within Human PD-L1 aa 250-290 (C terminal). The exact sequence is proprietary. NP_054862.1 and Gene ID 29126. Database link: <a href="#">Q9NZQ7</a>
<b>General notes</b>	<p>This product is sold under License from Bethyl Laboratories, Inc.</p> <p>Reproducibility is key to advancing scientific discovery and accelerating scientists' next breakthrough.</p> <p>Abcam is leading the way with our range of recombinant antibodies, knockout-validated antibodies and knockout cell lines, all of which support improved reproducibility.</p> <p>We are also planning to innovate the way in which we present recommended applications and species on our product datasheets, so that only applications &amp; species that have been tested in our own labs, our suppliers or by selected trusted collaborators are covered by our Abpromise™ guarantee.</p> <p>In preparation for this, we have started to update the applications &amp; species that this product is Abpromise guaranteed for.</p> <p>We are also updating the applications &amp; species that this product has been “predicted to work with,” however this information is not covered by our Abpromise guarantee.</p> <p>Applications &amp; species from publications and Abreviews that have not been tested in our own labs or in those of our suppliers are not covered by the Abpromise guarantee.</p> <p>Please check that this product meets your needs before purchasing. 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, as well as customer reviews and Q&amp;As.</p>

### Properties

---

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
<b>Storage buffer</b>	pH: 7.8 Preservative: 0.09% Sodium azide Constituents: 98% Borate buffered saline, 0.1% BSA
<b>Purification notes</b>	Recombinant antibody was purified from cell culture supernatant.
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	BLR020E
<b>Isotype</b>	IgG

## Applications

Our [Abpromise guarantee](#) covers the use of **ab243877** 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		1/1000. Treat samples with PNGase F to confirm the specificity of bands if necessary. PMID: 31327656 The observed band size is not exactly as predicted MWs in WB due to the different forms and modifications of PD-L1. Hu Isoform I-3: 20-33 kDa (predicted) Actual band size in WB is between 40-60 kDa. Positive Control: B-CPAP, MD-MB-231, U87-MG Negative Control: A549, SW480
ICC/IF		1/100 - 1/500.
IHC-P		1/100 - 1/500. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol. Treating samples with PNGase F may increase signal intensity. Positive Control: Hu tonsil, placenta tissues, head and neck squamous cell carcinoma Negative Control: MCF-7
IP		Use at an assay dependent concentration. Use 20µl/mg lysate.

## Target

<b>Function</b>	Involved in the costimulatory signal, essential for T-cell proliferation and production of IL10 and IFNG, in an IL2-dependent and a PDCD1-independent manner. Interaction with PDCD1 inhibits T-cell proliferation and cytokine production.
<b>Tissue specificity</b>	Highly expressed in the heart, skeletal muscle, placenta and lung. Weakly expressed in the thymus, spleen, kidney and liver. Expressed on activated T- and B-cells, dendritic cells, keratinocytes and monocytes.

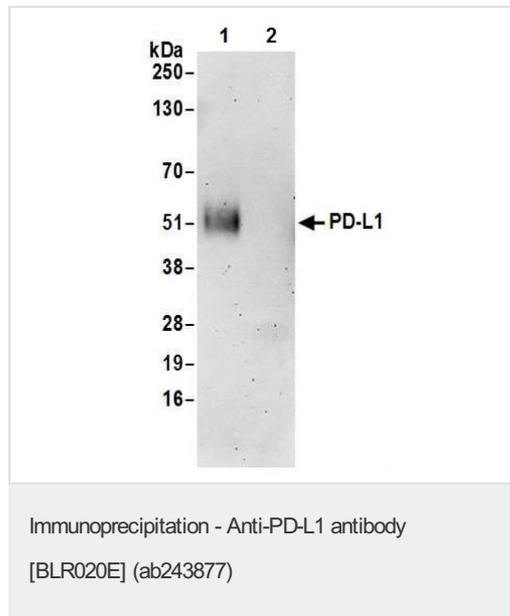
## Sequence similarities

Belongs to the immunoglobulin superfamily. BTN/MOG family.  
Contains 1 Ig-like C2-type (immunoglobulin-like) domain.  
Contains 1 Ig-like V-type (immunoglobulin-like) domain.

## Cellular localization

Cell membrane and Endomembrane system.

## Images

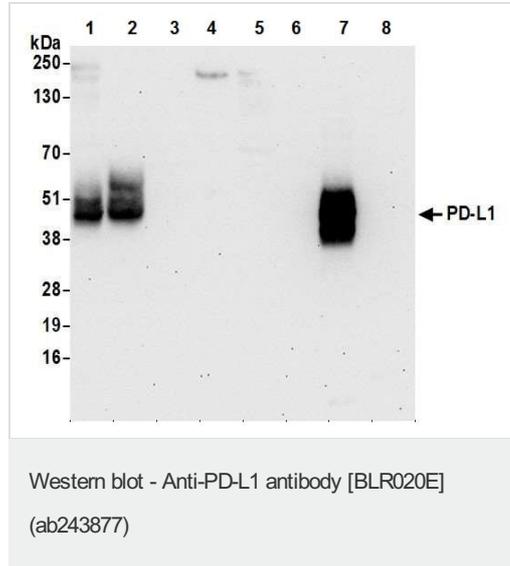


PDL-1 was immunoprecipitated from SUP-M2 whole cell lysate with ab243877. Western blot was performed on the immunoprecipitate using ab243877 at 1/1000 dilution.

Lane 1: ab243877 IP in SUP-M2 whole cell lysate.

Lane 2: Control IgG in SUP-M2 whole cell lysate.

Detection: Chemiluminescence.



Western blot analysis using ab243877 at 1/1000 dilution.

Lane 1: SUP-M2 whole cell lysate (50 µg).

Lane 2: HDLM-2 whole cell lysate (50 µg).

Lane 3: HEK-293T whole cell lysate (50 µg).

Lane 4: Ramos whole cell lysate (50 µg).

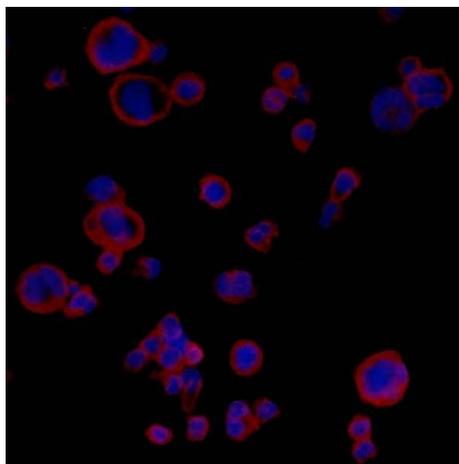
Lane 5: Jurkat whole cell lysate (50 µg).

Lane 6: PD-L2 whole cell lysate (50 µg).

Lane 7: PD-L1 whole cell lysate (50 µg).

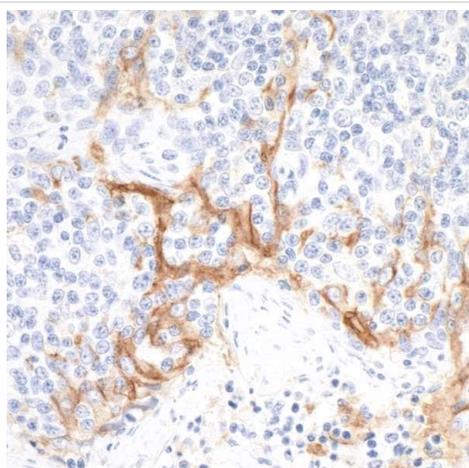
Lane 8: HEK-293 whole cell lysate (50 µg).

A HRP-conjugated goat anti-rabbit IgG antibody was used as the secondary. Detection: chemiluminescence.



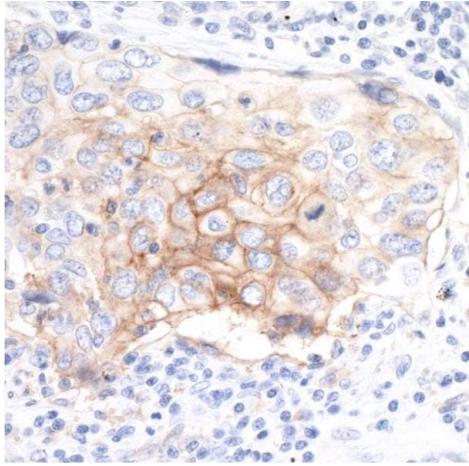
Immunocytochemistry/ Immunofluorescence - Anti-PD-L1 antibody [BLR020E] (ab243877)

Formaldehyde-fixed HDML-2 cells labeling PDL-1 using [ab243876](#) at 1/250 dilution in ICC/IF analysis. A HRP-conjugated goat anti-rabbit IgG was used as the secondary antibody. DAB staining



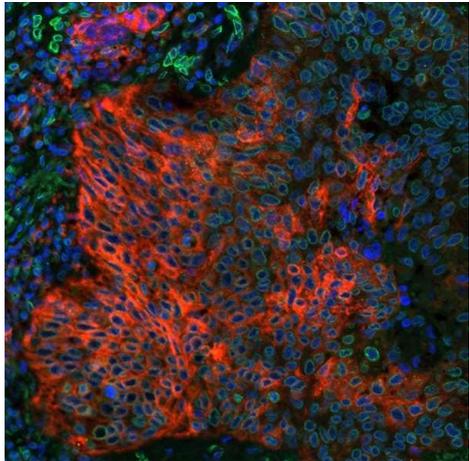
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PD-L1 antibody [BLR020E] (ab243877)

Formalin-fixed, paraffin-embedded human tonsil tissue stained for PD-L1 using [ab243877](#) at 1/100 dilution in immunohistochemical analysis. A HRP-conjugated goat anti-rabbit IgG was used as the secondary. DAB staining.



Formalin-fixed, paraffin-embedded human lung carcinoma tissue stained for PD-L1 using ab243877 at 1/100 dilution in immunohistochemical analysis. A HRP-conjugated goat anti-rabbit IgG was used as the secondary. DAB staining.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PD-L1 antibody [BLR020E] (ab243877)



Formalin-fixed, paraffin-embedded human lung carcinoma tissue stained for PD-L1 using ab243877 at 1/100 dilution in immunohistochemical analysis. A DyLight-conjugated goat anti-rabbit IgG was used as the secondary. DAB staining.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PD-L1 antibody [BLR020E] (ab243877)

### Why choose a recombinant antibody?



**Research with confidence**  
Consistent and reproducible results



**Long-term and scalable supply**  
Recombinant technology



**Success from the first experiment**  
Confirmed specificity



**Ethical standards compliant**  
Animal-free production

Anti-PD-L1 antibody [BLR020E] (ab243877)

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

### Our Abpromise to you: Quality guaranteed and expert technical support

---

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.com/abpromise> or contact our technical team.

### Terms and conditions

---

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors