Product name: Anti-PD-L1 antibody [ABM4E54]
Description: Mouse monoclonal [ABM4E54] to PD-L1
Host species: Mouse
Tested applications: Suitable for: IHC-P, WB, Flow Cyt
Species reactivity: Reacts with: Human
Immunogen: Recombinant fragment corresponding to Human PD-L1 aa 18-227.
Sequence:
AFTVTPKDLYYVEYSNMTIECKFPVEKQLDLAALVY
WEMEDKNIQF
VHGEEDLKVQHSSYRQRARLLKDQLSLGNAALQITDV
KLOTAGVYRCMIS
YGGADYKRTVKNAPYNQRLVDPVTSEHELTCQ
AEGYPKAEVMW
TSSDHQVLGKTTTTNSKREEKLFNVTSTLINTTNEIF
YCTFRRLDPEENHTAEVIP
Database link: Q9NZQ7-1
Positive control: Recombinant protein fragment of Human PD-L1; Human Hodkin's lymphoma tissue. Programmed death-ligand 1 (PD-L1) expression in various tumor types - http://www.immunotherapyofcancer.org/content/1/S1/P53

Properties
Form: Liquid
Storage instructions: Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer: Preservative: 0.05% Sodium azide
Constituents: 99% PBS, 0.05% BSA
Purity: Protein G purified
Clonality: Monoclonal
Clone number: ABM4E54
Isotype: IgG2a

Light chain type: kappa

**Applications**

Our Abpromise guarantee covers the use of ab210931 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

<table>
<thead>
<tr>
<th>Application</th>
<th>Abreviews</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>IHC-P</td>
<td>★★★★★</td>
<td>Use a concentration of 5 µg/ml. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.</td>
</tr>
<tr>
<td>WB</td>
<td></td>
<td>Use a concentration of 0.5 µg/ml. Predicted molecular weight: 33 kDa.</td>
</tr>
<tr>
<td>Flow Cyt</td>
<td></td>
<td>Use a concentration of 1 - 2 µg/ml.</td>
</tr>
</tbody>
</table>

**Target**

**Function**

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.

**Tissue specificity**

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**
Immunohistochemical analysis of formalin-fixed paraffin-embedded Human Hodgkin's lymphoma tissue, labeling PD-L1 with ab210931 at 5 µg/mL.

Anti-PD-L1 antibody [ABM4E54] (ab210931) at 0.5 µg/ml + Recombinant protein fragment of Human PD-L1

**Predicted band size:** 33 kDa

Cell Surface flow cytometry analysis of PD-L1 in PHA treated human PBMC using 1 µg of ab210931. Green represents isotype control; pink represents ab210931 antibody. Goat anti-mouse PE conjugate was used as secondary antibody.
All lanes: Anti-PD-L1 antibody [ABM4E54] (ab210931) at 2 µg/ml

Lane 1: A549 lysate
Lane 2: MCF-7 lysate
Lane 3: 293 lysate
Lane 4: HCT-116 lysate
Lane 5: Saos2 lysate
Lane 6: HeLa lysate

Lysates/proteins at 30 µg per lane.

Predicted band size: 33 kDa

Exposure time: 1 minute in film and 30 seconds in imager.

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