abcam

Product datasheet

Anti-PD-L1 antibody [CAL10] - Mouse IgG1 (Chimeric) ab279292

KO 評価済 リコンビナント

★★★★★ 1 Abreviews 画像数 6

製品の概要

製品名	Anti-PD-L1 antibody [CAL10] - Mouse IgG1 (Chimeric)
製品の詳細	Mouse monoclonal [CAL10] to PD-L1 - Mouse IgG1
由来種	Mouse
アプリケーション	**適用あり:** WB, Flow Cyt (Intra), IHC-P, ICC/IF
種交差性	**交差種:** Human
免疫原	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
ポジティブ・コントロール	WB: PD-L1 stably expressed CHO whole cell lysate. Human placenta tissue lysate. NCI-H1299 whole cell lysate. ICC: PD-L1 stably expressed CHO cells. Flow Cyt (intra): PD-L1 stably expressed CHO cells. IHC-P: Human tonsil tissue.
特記事項	This mouse monoclonal chimeric antibody has been engineered from a RabMAb parent antibody (**ab237726**). By necessity, some rabbit sequence is retained as part of the variable domain. When multiplexing with other rabbit-derived antibodies, using cross absorbed Fc-reactive secondary antibodies are recommended.

製品の特性

製品の状態	Liquid
保存方法	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.
バッファー	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
精製度	Protein A purified
ポリ/モノ	モノクローナル
クローン名	CAL10
アイソタイプ	IgG1

アプリケーション

The Abpromise guarantee **Abpromise保証は、** 次のテスト済みアプリケーションにおけるab279292の使用に適用されます

アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

アプリケーション	Abreviews	特記事項
WB	★★★★★ (1)	1/1000.
Flow Cyt (Intra)		1/50.
IHC-P		Use at an assay dependent concentration. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.
ICC/IF		1/100.

ターゲット情報

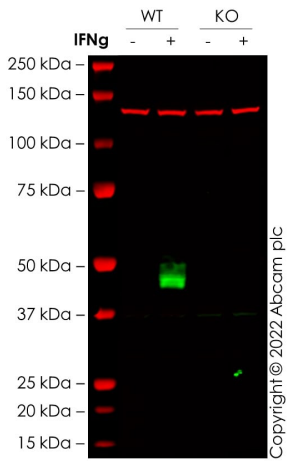
機能
Involved in the costimulatory signal, essential for T-cell proliferation and production of IL10 and IFNG, in an IL2-dependent and a PDCD1-independent manner. Interaction with PDCD1 inhibits T-cell proliferation and cytokine production.

組織特異性
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.

配列類似性
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.

細胞内局在
Cell membrane and Endomembrane system.

画像



Western blot - Anti-PD-L1 antibody [CAL10] - Mouse IgG1 (Chimeric) (ab279292)

All lanes : Anti-PD-L1 antibody [CAL10] - Mouse IgG1 (Chimeric) (ab279292) at 1/1000 dilution

Lane 1 : Wild-type A549 Control IFN-gamma (0 ng/mL, 48 h), **ab255450**

Lane 2 : Wild-type A549 Treated IFN-gamma (100 ng/mL, 48 h), **ab255450**

Lane 3 : CD274 knockout A549 Control IFN-gamma (0 ng/mL, 48 h), **ab267055**

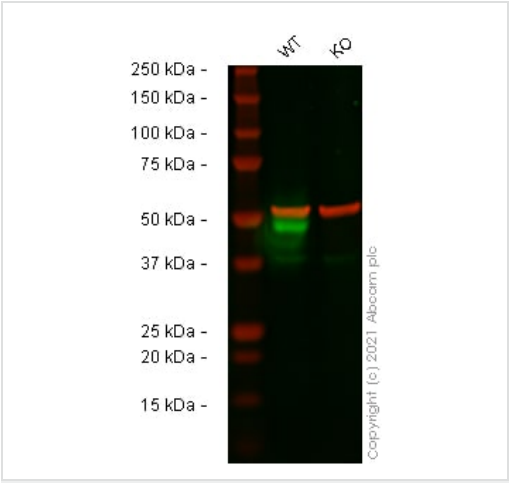
Lane 4 : CD274 knockout A549 Treated IFN-gamma (100 ng/mL, 48 h), **ab267055**

Lysates/proteins at 20 µg per lane.

Performed under reducing conditions.

Observed band size: 45 kDa

False colour image of Western blot: Anti-PD-L1 antibody [CAL10] – Mouse IgG1 (Chimeric) staining at 1/1000 dilution, shown in green; Rabbit anti-Vinculin antibody (**ab219649**) loading control staining at 1/1000 dilution, shown in red. In Western blot, ab279292 was shown to bind specifically to PD-L1. A band was observed at 45 kDa in wild-type A549 cell lysates with no signal observed at this size in Cd274 knockout cell line. To generate this image, wild-type and Cd274 knockout A549 cell lysates were analysed. First, samples were run on an SDS-PAGE gel then transferred onto a nitrocellulose membrane. Membranes were blocked in 3 % milk in TBS-0.1 % Tween® 20 (TBS-T) before incubation with primary antibodies overnight at 4 °C. Blots were washed four times in TBS-T, incubated with secondary antibodies for 1 h at room temperature, washed again four times then imaged. Secondary antibodies used were Goat anti-Mouse IgG H&L 800CW and Goat anti-Rabbit IgG H&L 680RD at 1/20000 dilution.



Western blot - Anti-PD-L1 antibody [CAL10] - Mouse IgG1 (Chimeric) (ab279292)

All lanes : Anti-PD-L1 antibody [CAL10] - Mouse IgG1 (Chimeric) (ab279292) at 1/1000 dilution

Lane 1 : Wild-type A549 Treated IFN-gamma (100 ng/ml) for 48 hours cell lysate
Lane 2 : CD274 knockout A549 Treated IFN-gamma (100 ng/ml) for 48 hours cell lysate

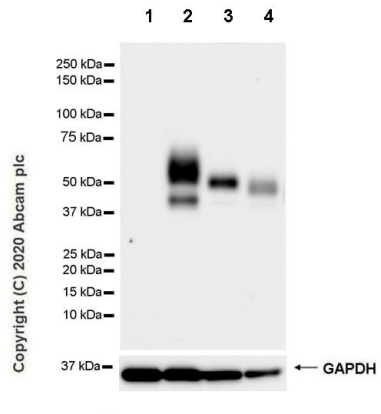
Lysates/proteins at 20 µg per lane.

Performed under reducing conditions.

Observed band size: 48 kDa

False colour image of Western blot: Anti-PD-L1 antibody [CAL10] – Mouse IgG1 (Chimeric) staining at 1/1000 dilution, shown in green; Rabbit anti-alpha Tubulin antibody [EP1332Y] (**ab52866**) loading control staining at 1/20000 dilution, shown in red. In Western blot, ab279292 was shown to bind specifically to PD-L1. A band was observed at 48 kDa in treated wild-type A549 cell lysates with no

signal observed at this size in Cd274 knockout cell line **ab267054** (knockout cell lysate **ab256831**). To generate this image, wild-type and Cd274 knockout A549 cell lysates were analysed. First, samples were run on an SDS-PAGE gel then transferred onto a nitrocellulose membrane. Membranes were blocked in 3 % milk in TBS-0.1 % Tween® 20 (TBS-T) before incubation with primary antibodies overnight at 4 °C. Blots were washed four times in TBS-T, incubated with secondary antibodies for 1 h at room temperature, washed again four times then imaged. Secondary antibodies used were Goat anti-Mouse IgG H&L (IRDye® 800CW) preabsorbed (**ab216772**) and Goat anti-Rabbit IgG H&L (IRDye® 680RD) preabsorbed (**ab216777**) at 1/20000 dilution.



Western blot - Anti-PD-L1 antibody [CAL10] - Mouse IgG1 (Chimeric) (ab279292)

All lanes : Anti-PD-L1 antibody [CAL10] - Mouse IgG1 (Chimeric) (ab279292) at 1/1000 dilution

Lane 1 : CHO-S (Chinese hamster ovary epithelial cell) whole cell lysate
Lane 2 : CHO-PD-L1 (PD-L1 stably expressed Chinese hamster ovary epithelial cell) whole cell lysate
Lane 3 : Human placenta tissue lysate
Lane 4 : NCI-H1299 (human lung carcinoma epithelial cell), whole cell lysate

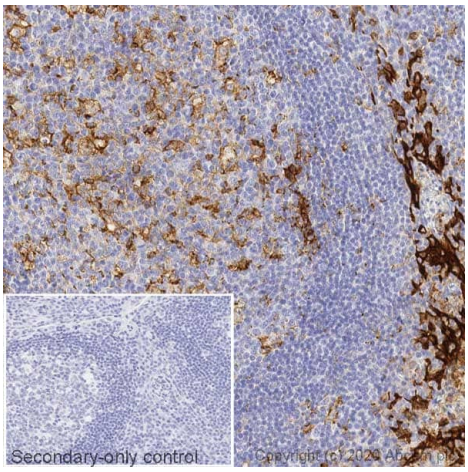
Lysates/proteins at 20 µg per lane.

Secondary
All lanes : Peroxidase-Conjugated Goat anti-Mouse IgG (H+L) at 1/5000 dilution

Observed band size: 40-60 kDa

Exposure time: 15 seconds

Blocking/Dilution buffer: 5% NFDM/TBST.

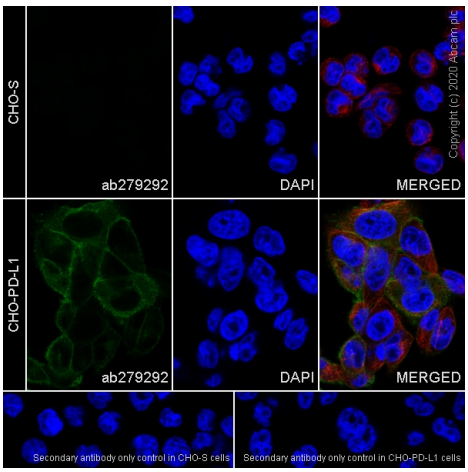


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PD-L1 antibody [CAL10] - Mouse IgG1 (Chimeric) (ab279292)

IHC image of PD-L1 staining in a section of formalin-fixed paraffin-embedded normal human tonsil* performed on a Leica BOND™ system using the standard protocol F.

The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH6, epitope retrieval solution 1) for 20mins. The section was then incubated with ab279292, 1ug/ml, for 15 mins at room temperature. A rabbit anti-mouse IgG1, **ab125913**, was added for 8 mins at room temperature and detected using an HRP conjugated goat anti-rabbit compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX. The inset secondary-only control image is taken from an identical assay without primary antibody.
For other IHC staining systems (automated and non-automated) customers should optimize variable parameters such as antigen retrieval conditions, primary antibody concentration and antibody incubation times.

*Tissue obtained from the Human Research Tissue Bank, supported by the NIHR Cambridge Biomedical Research Centre

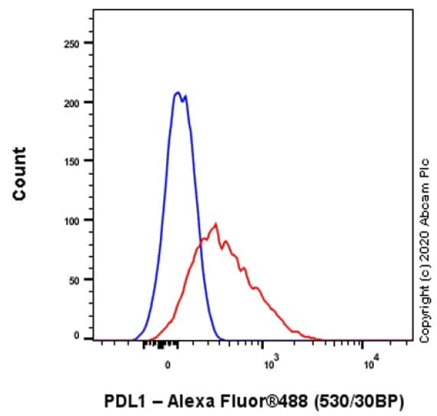


Immunocytochemistry/ Immunofluorescence - Anti-PD-L1 antibody [CAL10] - Mouse IgG1 (Chimeric) (ab279292)

Immunocytochemical analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100-fixed permeabilized CHO-PD-L1 cells labeling PD-L1 with ab279292 at 1/100 dilution, followed by **ab150113** Goat Anti-MouseIgG H&L (Alexa Fluor® 488) antibody at 1/1000 dilution (Green). **ab179513** Anti-beta Tubulin rabbit monoclonal antibody was used to counterstain tubulin at 1/200 dilution, followed by **ab150080** Goat Anti-Rabbit IgG H&L (Alexa Fluor® 594) at a 1/500 dilution (Red). The nuclear counterstain was DAPI (Blue). Confocal image showing membranous and cytoplasmic staining in CHO-PD-L1 cells.

Negative control 1: ab279292 at a 1/100 dilution followed by **ab150080** at a 1/200 dilution.

Negative control 2: **ab179513** at a 1/200 dilution followed by **ab150157** at a 1/1000 dilution.



Flow Cytometry (Intracellular) - Anti-PD-L1 antibody [CAL10] - Mouse IgG1 (Chimeric) (ab279292)

Flow cytometric analysis of 4% paraformaldehyde-fixed, 90% methanol-permeabilized CHO-s (Chinese hamster ovary epithelial cell, Blue) / CHO-PDL1 (PD-L1 stably expessed Chinese hamster ovary epithelial cell, Red) labelling PD-L1 with ab279292 at 1/50 dilution (0.1µg).

Goat Anti-Mouse IgG (Alexa Fluor® 488, **ab150113**) at 1/2000 dilution was used as the secondary antibody.

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