

Product datasheet

Anti-PD-L1 antibody [SP142] - C-terminal ab228462

Recombinant RabMAb

★★★★★ 1 Abreviews 72 References 12 Images

Overview

Product name	Anti-PD-L1 antibody [SP142] - C-terminal
Description	Rabbit monoclonal [SP142] to PD-L1 - C-terminal
Host species	Rabbit
Tested applications	Suitable for: IHC-P, ICC/IF
Species reactivity	Reacts with: Human, Recombinant fragment
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	IHC-P: Human placenta, tonsil, lung squamous cell carcinoma, cervical squamous cell carcinoma, skin squamous cell carcinoma, Hodgkin's lymphoma, pancreatic adenocarcinoma and prostate adenocarcinoma tissues. ICC/IF: CHO-PD-L1 cells.
General notes	<p>Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb® patents.</p> <p>This product is FOR RESEARCH USE ONLY. For commercial use, please contact partnerships@abcam.com.</p> <p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production <p>For more information see here.</p>

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 long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.60 Preservative: 0.1% Sodium azide Constituents: PBS, 1% BSA
Purity	Protein A/G purified
Purification notes	Purified from TCS by protein A/G.

Clonality	Monoclonal
Clone number	SP142
Isotype	IgG

Applications

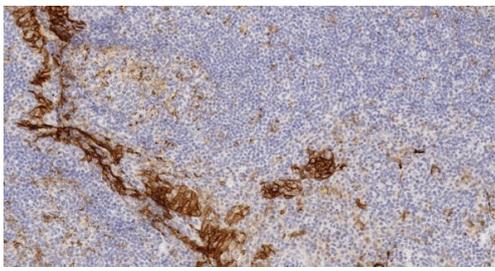
The Abpromise guarantee Our [Abpromise guarantee](#) covers the use of ab228462 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-P	★★★★★ (1)	1/100. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol. Primary antibody incubation for 10 minutes at room temperature. Treating samples with PNGase F may increase signal intensity. Positive Control: Hu tonsil, placenta tissues, head and neck squamous cell carcinoma
ICC/IF		1/50.

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.

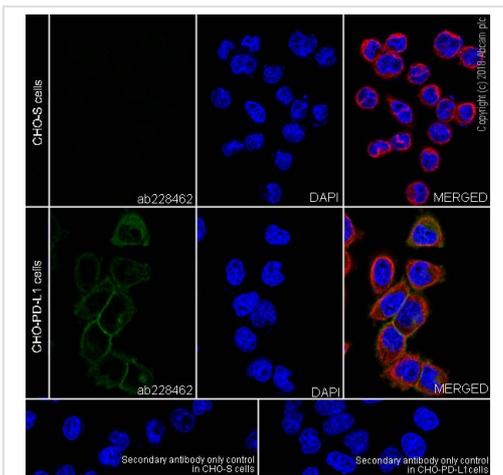
Images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PD-L1 antibody [SP142] - C-terminal (ab228462)

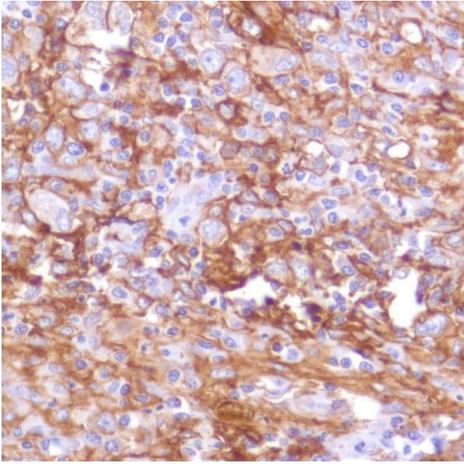
IHC image of ab228462 staining PD-L1 in human tonsil formalin fixed paraffin embedded tissue sections*, performed on a Leica BOND RX (standard Protocol F, Polymer Refine kit). The section was pre-treated using heat mediated antigen retrieval with EDTA buffer (pH9, epitope retrieval solution 2) for 30 mins at 98°C. The section was then incubated with ab228462, 1/400 working dilution, for 15 mins at room temperature and detected using an HRP conjugated compact polymer system for 8 minutes at room temperature. DAB was used as the chromogen for 10 minutes at room temperature. The section was then counterstained with hematoxylin, blued, dehydrated, cleared and mounted with DPX. 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 [SP142] - C-terminal (ab228462)

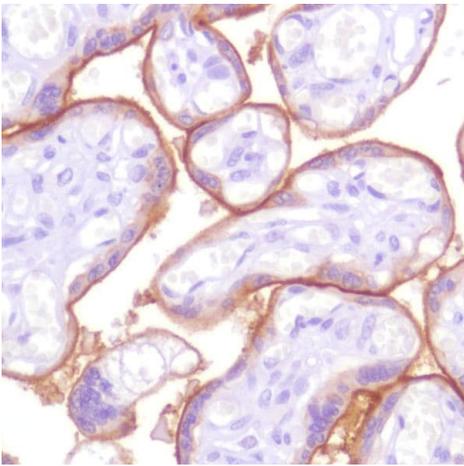
Immunocytochemistry/ Immunofluorescence analysis of CHO-PD-L1 (PD-L1 stably expressed Chinese hamster ovary epithelial cell) cells labeling PD-L1 with purified ab228462 at 1/50 (2 µg/ml). Cells were fixed in 4% paraformaldehyde and permeabilized with 0.1% Triton X-100. Cells were counterstained with ab195889 Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) 1/200 (2.5 µg/ml). Goat anti rabbit IgG (Alexa Fluor® 488, ab150077) was used as the secondary antibody at 1/1000 (2 µg/ml) dilution. DAPI was used as nuclear counterstain. PBS instead of the primary antibody was used as the secondary antibody only control.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PD-L1 antibody [SP142] - C-terminal (ab228462)

Formalin-fixed, paraffin-embedded human Hodgkin's lymphoma tissue stained for PD-L1 using ab228462 at 1/100 dilution in immunohistochemical analysis.

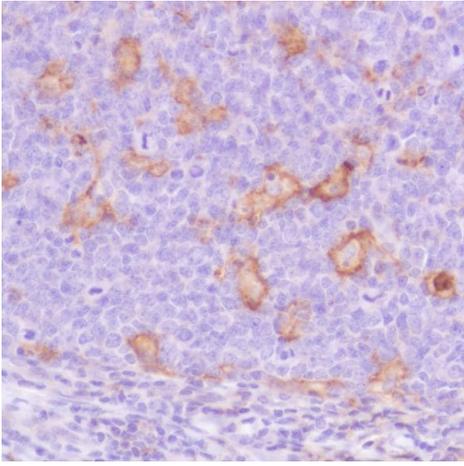
Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PD-L1 antibody [SP142] - C-terminal (ab228462)

Formalin-fixed, paraffin-embedded human placenta tissue stained for PD-L1 using ab228462 at 1/100 dilution in immunohistochemical analysis.

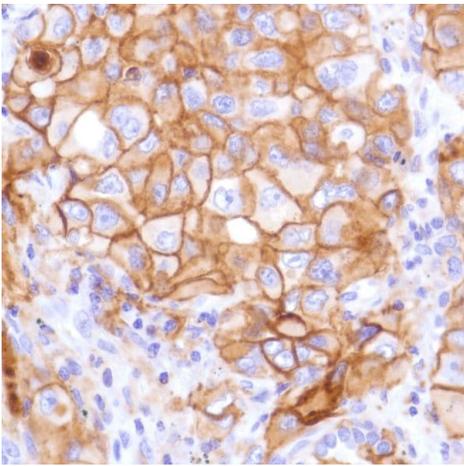
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Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PD-L1 antibody [SP142] - C-terminal (ab228462)

Formalin-fixed, paraffin-embedded human tonsil tissue stained for PD-L1 using ab228462 at 1/100 dilution in immunohistochemical analysis.

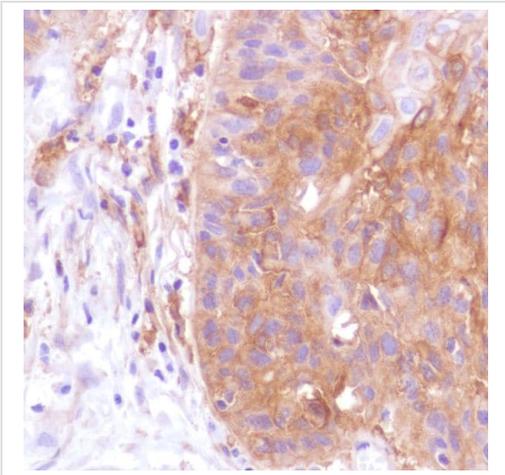
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Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PD-L1 antibody [SP142] - C-terminal (ab228462)

Formalin-fixed, paraffin-embedded human lung squamous cell carcinoma tissue stained for PD-L1 using ab228462 at 1/100 dilution in immunohistochemical analysis.

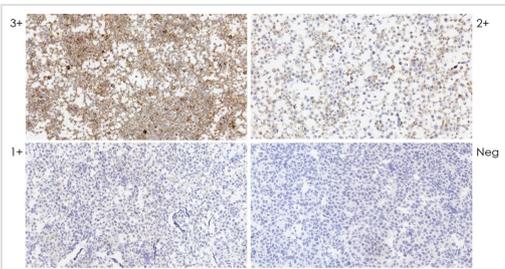
Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PD-L1 antibody [SP142] - C-terminal (ab228462)

Formalin-fixed, paraffin-embedded human cervical squamous cell carcinoma tissue stained for PD-L1 using ab228462 at 1/100 dilution in immunohistochemical analysis.

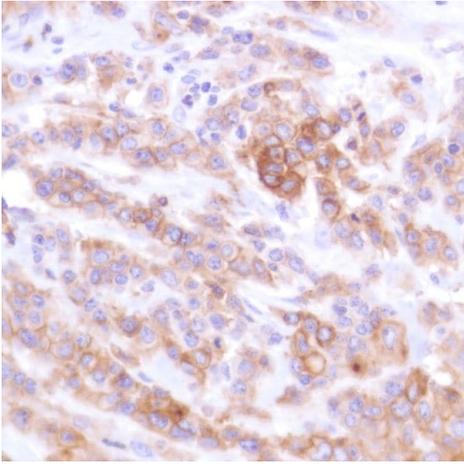
Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PD-L1 antibody [SP142] - C-terminal (ab228462)

IHC image of ab228462 staining PD-L1 in PD-L1 Dynamic Range Analyte Control formalin fixed paraffin embedded human cell lines ([HistoCyte Laboratories](https://www.histo-cyte.com/)), performed on a Leica BOND RX (standard Protocol F, Polymer Refine kit). The section was pre-treated using heat mediated antigen retrieval with EDTA buffer (pH9, epitope retrieval solution 2) for 30 mins at 98°C. The section was then incubated with ab228462, 1/400 working dilution, for 15 mins at room temperature and detected using an HRP conjugated compact polymer system for 8 minutes at room temperature. DAB was used as the chromogen for 10 minutes at room temperature. The section was then counterstained with hematoxylin, blued, dehydrated, cleared and mounted with DPX.

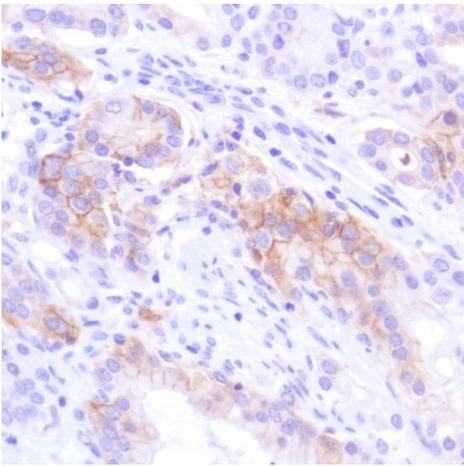
For other IHC staining systems (automated and non-automated) customers should optimize variable parameters such as antigen retrieval conditions, primary antibody concentration and antibody incubation times.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PD-L1 antibody [SP142] - C-terminal (ab228462)

Formalin-fixed, paraffin-embedded human pancreatic adenocarcinoma tissue stained for PD-L1 using ab228462 at 1/100 dilution in immunohistochemical analysis.

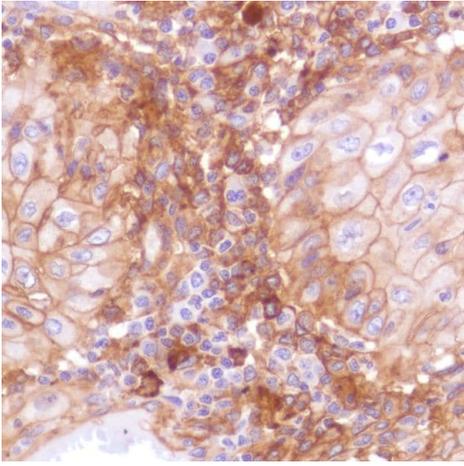
Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PD-L1 antibody [SP142] - C-terminal (ab228462)

Formalin-fixed, paraffin-embedded human prostate adenocarcinoma tissue stained for PD-L1 using ab228462 at 1/100 dilution in immunohistochemical analysis.

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PD-L1 antibody [SP142] - C-terminal (ab228462)

Formalin-fixed, paraffin-embedded human skin squamous cell carcinoma tissue stained for PD-L1 using ab228462 at 1/100 dilution in immunohistochemical analysis.

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

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 [SP142] - C-terminal (ab228462)

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

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