abcam

Product datasheet

Anti-PD-L1 antibody [28-8] (Alexa Fluor® 647) ab209960

Recombinant   RabMAb®

2 References   2 Images

Overview

Product name	Anti-PD-L1 antibody [28-8] (Alexa Fluor® 647)
Description	Rabbit monoclonal [28-8] to PD-L1 (Alexa Fluor® 647)
Host species	Rabbit
Conjugation	Alexa Fluor® 647. Ex: 652nm, Em: 668nm
Tested applications	**Suitable for:** Flow Cyt, ICC/IF
Species reactivity	**Reacts with:** Human
Immunogen	Recombinant full length protein corresponding to Human PD-L1 (extracellular). The immunogen contains the specific extracellular domain of huPD-L1 (Phe19-Thr239). See reference for more info - www.ncbi.nlm.nih.gov/pmc/articles/PMC4561627/ Database link: Q9NZQ7
Positive control	ICC/IF: CHO-PDL1 cells Flow Cyt: CHO-PDL1 cells
General notes	Anti-PD-L1 antibody [28-8] has been used as detector antibody in **Human PD-L1 SimpleStep ELISA® kit (ab214565)** Alternative versions available: Anti-PD-L1 antibody [28-8] (ab205921) - **Knockout validated** Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMab® patents. Alexa Fluor® is a registered trademark of Molecular Probes, Inc, a Thermo Fisher Scientific Company. The Alexa Fluor® dye included in this product is provided under an intellectual property license from Life Technologies Corporation. As this product contains the Alexa Fluor® dye, the purchase of this product conveys to the buyer the non-transferable right to use the purchased product and components of the product only in research conducted by the buyer (whether the buyer is an academic or for-profit entity). As this product contains the Alexa Fluor® dye the sale of this product is expressly conditioned on the buyer not using the product or its components, or any materials made using the product or its components, in any activity to generate revenue, which may include, but is not limited to use of the product or its components: in manufacturing; (ii) to provide a service, information, or data in return for payment (iii) for therapeutic, diagnostic or prophylactic purposes; or (iv) for resale, regardless of whether they are sold for use in research. For information on purchasing a license to this product for purposes other than research, contact Life Technologies Corporation, 5781 Van Allen Way, Carlsbad, CA 92008 USA or outlicensing@thermofisher.com.

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. Stable for 12 months at -20°C. Store In the Dark.
Storage buffer	pH: 7.40 Preservative: 0.02% Sodium azide Constituents: 1% BSA, 30% Glycerol, PBS
Purity	Affinity purified
Clonality	Monoclonal
Clone number	28-8
Isotype	IgG

Applications

Our Abpromise guarantee covers the use of **ab209960** 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
Flow Cyt		1/100.
ICC/IF		1/100. This product gave a positive signal in CHO-PDL1 cells fixed with 4% formaldehyde (10 min)

Target

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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
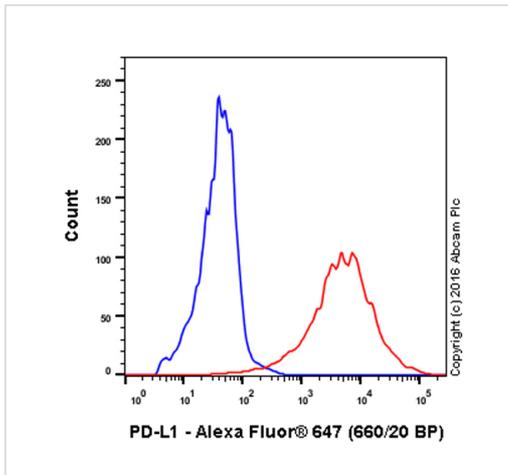
Flow Cytometry - Anti-PD-L1 antibody [28-8] (Alexa Fluor® 647) (ab209960)

Overlay histgram showing CHO (blue line) and CHO-PD-L1 transfected (red line) cells stained with ab209960.

The cells were incubated in 1x PBS / 10% normal goat serum to block non-specific protein-protein interactions followed by the antibody (ab209960, 1/100 dilution) for 30 min at 4ºC.

Acquisition of >5,000 events were collected using a 17mW red Helium-Neon laser (633nm) and 660/20 bandpass filter.
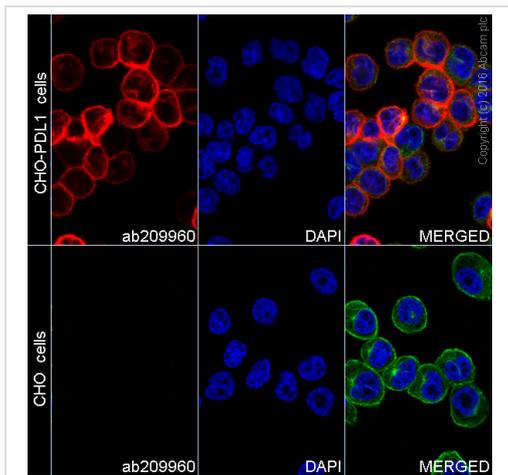
Immunocytochemistry/ Immunofluorescence - Anti-PD-L1 antibody [28-8] (Alexa Fluor® 647) (ab209960)

Ab209960 staining PDL1 in CHO-PDL1 cells. The lower panels demonstrate that ab209960 does not cross react with un-transfected CHO cells.

The cells were fixed with 4% formaldehyde (10 min), permeabilized with 0.1% Triton X-100 for 5 minutes and then blocked with 1% BSA/10% normal goat serum/0.3M glycine in 0.1% PBS-Tween for 1h. The cells were then incubated overnight at +4°C with ab209960 at 1/200 dilution (shown in red) and ab195887, Mouse monoclonal to alpha Tubulin (Alexa Fluor® 488), at 1/250 dilution (shown in green). Nuclear DNA was labelled with DAPI (shown in blue).

Image was taken with a confocal microscope (Leica-Microsystems, TCS SP8).

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