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PD-L1/CD274 Rabbit mAb

Catalog No.: A26086 Recombinant

Basic Information

Observed MW
40-50kDa

Calculated MW
33kDa

Category
Primary antibody

Applications
WB,IF/ICC,ELISA,Inhibition

Cross-Reactivity
Human

CloneNo number
ARC5146-01

Background

This gene encodes an immune inhibitory receptor ligand that is expressed by hematopoietic and non-hematopoietic cells, such as T cells and B cells and various types of tumor cells. The encoded protein is a type I transmembrane protein that has immunoglobulin V-like and C-like domains. Interaction of this ligand with its receptor inhibits T-cell activation and cytokine production. During infection or inflammation of normal tissue, this interaction is important for preventing autoimmunity by maintaining homeostasis of the immune response. In tumor microenvironments, this interaction provides an immune escape for tumor cells through cytotoxic T-cell inactivation. Expression of this gene in tumor cells is considered to be prognostic in many types of human malignancies, including colon cancer and renal cell carcinoma. Alternative splicing results in multiple transcript variants.

Recommended Dilutions

WB	1:4000 - 1:8000
IF/ICC	1:50 - 1:200
ELISA	Recommended starting concentration is 1 μg/mL. Please optimize the concentration based on your specific assay requirements.

Immunogen Information

Gene ID
29126

Swiss Prot
Q9NZQ7

Immunogen
Recombinant protein of human PD-L1/CD274.

Synonyms
B7-H; B7H1; PDL1; PD-L1; hPD-L1; PDCD1L1; PDCD1LG1

Contact

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Product Information

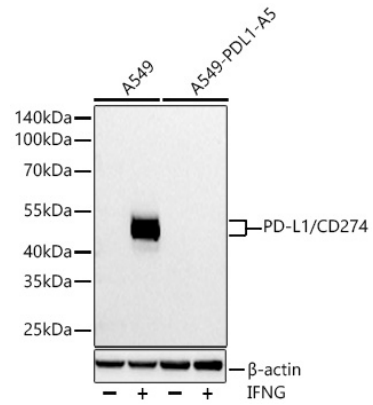
Source
Rabbit

Isotype
IgG

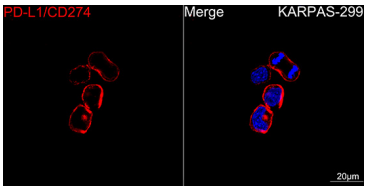
Purification
Affinity purification

Storage
Store at -20℃. Avoid freeze / thaw cycles.
Buffer: PBS with 0.05% proclin300,0.05% BSA,50% glycerol,pH7.3.

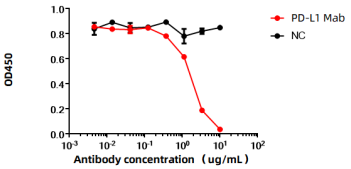
Validation Data



Western blot analysis of lysates from wild type (WT) and PD-L1/CD274 knockout (KO) A549 cells using PD-L1/CD274 Rabbit mAb (A26086) at 1:8000 dilution incubated overnight at 4℃. Wild type (WT) and PD-L1/CD274 knockout (KO) A549 cells were treated by IFNG (100 ng/mL) at 37℃ for 48 hours.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 30 µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 90s.



Confocal imaging of KARPAS-299 cells using PD-L1/CD274 Rabbit mAb (A26086, dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Objective: 100x.



1µg/mL of biotinylated PD-L1/CD274 protein was incubated with PD-L1/CD274 Rabbit mAb (A26086) or control mAb with serial dilution for 1 hour at RT. The mixture was added to ELISA plate coated with 1 µg/mL of recombinant expressed PD-1. HRP-Streptavidin was used for biotinylated PD-L1/CD274 detection.