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CD274 Rabbit mAb

Catalog No.: A27937 Recombinant

Basic Information

Observed MW
50-60kDa

Calculated MW
33kDa

Category
Primary antibody

Applications
WB,IF/ICC,IHC-P,FC,ELISA

Cross-Reactivity
Mouse

CloneNo number
ARC61956

Background

The protein encoded by this gene is 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. Mice deficient for this gene display a variety of phenotypes including decreased allogeneic fetal survival rates and severe experimental autoimmune encephalomyelitis.

Recommended Dilutions

WB	1:1000 - 1:4000
IF/ICC	1:200 - 1:400
IHC-P	1:200 - 1:800
FC	1:100 - 1:500
ELISA	Recommended starting concentration is 1 μg/mL. Please optimize the concentration based on your specific assay requirements. For high-ratio antibody dilutions (≥1:10000)，a sequential dilution method is strongly recommended to ensure measurement accuracy.

Immunogen Information

Gene ID
60533

Swiss Prot
Q9EP73

Immunogen
Recombinant protein (or fragment).This information is considered to be commercially sensitive.

Synonyms
B7h1; Pdl1; Pdcd1l1; Pdcd1lg1; A530045L16Rik

Product Information

Source
Rabbit

Isotype
IgG

Purification
Affinity purification

Storage
Store at -20℃. Avoid freeze / thaw cycles.
Buffer: PBS containing 50% glycerol and 0.05% BSA, preserved with proclin300 or sodium azide (as specified on the Certificate of Analysis), pH 7.3.

Contact

400-999-6126

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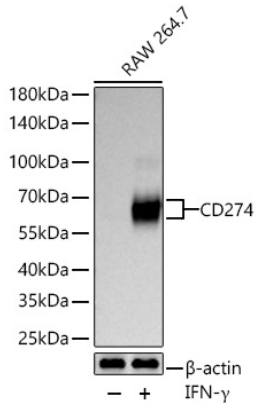
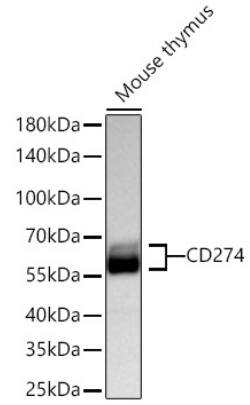
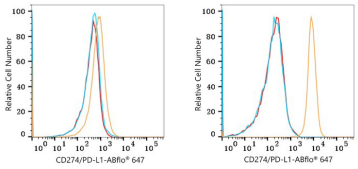
Validation Data



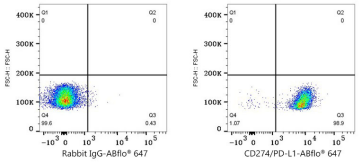
Western blot analysis of lysates from RAW 264.7 cells using CD274 Rabbit mAb (A27937) at 1:2000 dilution incubated overnight at 4℃. Raw264.7 cells were treated with IFN-γ (100 ng/mL) at 37℃ for 24 hours.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 30 µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 45s.



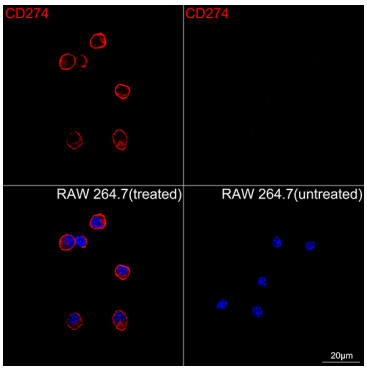
Western blot analysis of lysates from Mouse thymus using CD274 Rabbit mAb (A27937) at 1:2000 dilution incubated overnight at 4℃.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25 µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 90s.



Flow cytometry: 1X10^6 C2C12 cells (Low Expression,left) and A20 cells (right) were surface-stained with CD274 Rabbit mAb (A27937,2 µg/mL,orange line) or Rabbit IgG isotype control (AC042,2 µg/mL,blue line), followed by Alexa Fluor® 647 conjugated goat anti-rabbit pAb staining. Non-fluorescently stained cells were used as blank control (red line).

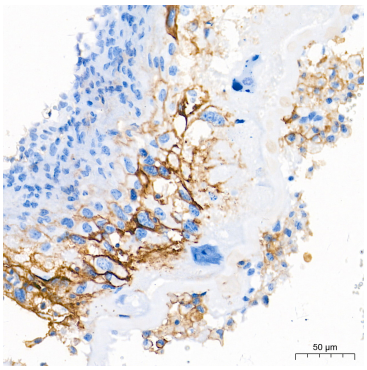


Flow cytometry: 1X10^6 A20 cells were surface-stained with Rabbit IgG isotype control (AC042,2 µg/mL,left) or CD274 Rabbit mAb (A27937,2 µg/mL,right), followed by Alexa Fluor® 647 conjugated goat anti-rabbit pAb staining.

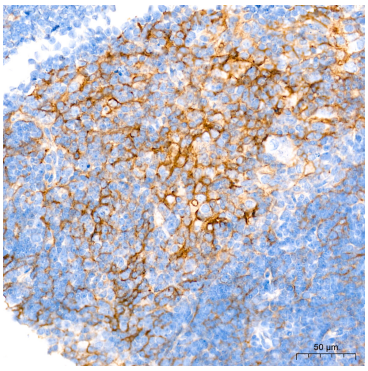


Confocal imaging of RAW 264.7 cells (treated with IFN-γ) and RAW 264.7 cells (untreated) using CD274 Rabbit mAb (A27937, dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Objective: 100x.

Validation Data



Immunohistochemistry analysis of paraffin-embedded Mouse placenta tissue using CD274 Rabbit mAb (A27937) at a dilution of 1:500 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Mouse thymus tissue using CD274 Rabbit mAb (A27937) at a dilution of 1:500 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.