
Product Name: KO-Validated CD274 Recombinant Rabbit Monoclonal Antibody**Catalog #: KVA00126**

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,IHC-P
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; IHC-P 1:100-1:200
Molecular Weight	Calculated MW: 33.3kDa

Antigen Information

Gene Name	CD274 CD274; CD274 Molecule; PD-L1; B7H1; PDL1; Programmed Cell Death 1 Ligand 1; CD274
Alternative Names	Antigen; B7 Homolog 1; PDCD1LG1; B7-H1; B7-H; PDCD1 Ligand 1; PDCD1L1; HPD-L1; Programmed Death Ligand 1
Gene ID	29126.0
SwissProt ID	Q9NZQ7
Immunogen	A synthesized peptide derived from human PD-L1 (CD274)

Background

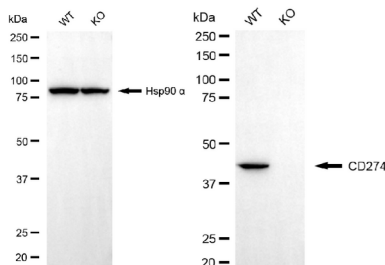
This gene encodes an immune inhibitory receptor ligand that is expressed by hematopoietic and non-hematopoietic cells, such as T cells and B cells and various types of tumor cells. The encoded protein is a type I transmembrane protein that has

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. [provided by RefSeq, Sep 2015]

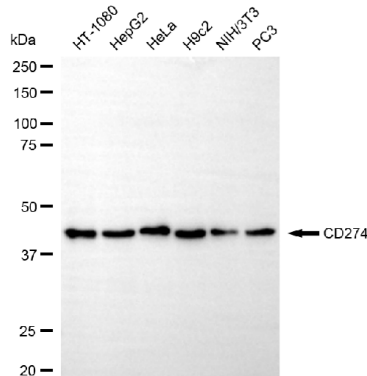
Research Area

Immunology,Cancer

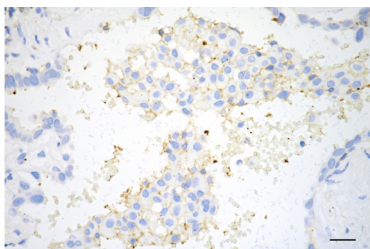
Image Data



Western blotting analysis using CD274 antibody (KVA00126). CD274 expression in wild type (WT) and CD274 knockout (KO) HSHC cells with 50 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with CD274 antibody (KVA00126, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Western blotting analysis using CD274 antibody (KVA00126). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with CD274 antibody (KVA00126, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunohistochemistry was performed on paraffin-embedded human lung adenocarcinoma using CD274 antibody (KVA00126, 1:200). Antigen retrieval was done in sodium citrate buffer (pH 6.0). DAB was used for detection, with hematoxylin counterstaining. Images were acquired using a Nikon Ci-L Plus microscope (40× objective). Scale bar: 25 µm.