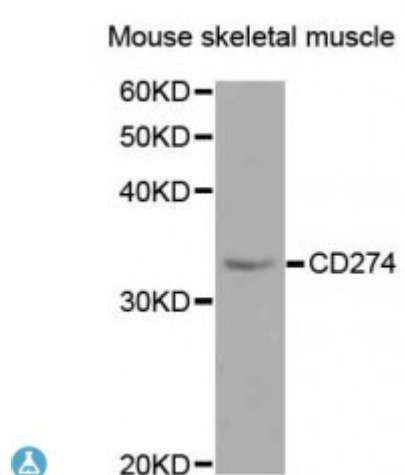


Anti-CD274 Antibody



Description

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.

Model	STJ113753
Host	Rabbit
Reactivity	Human, Mouse, Rat
Applications	IF, IHC, WB
Immunogen	Recombinant fusion protein containing a sequence corresponding to amino acids 19-238 of human CD274 (NP_054862.1).
Gene ID	29126
Gene Symbol	CD274
Dilution range	WB 1:500 - 1:2000 IHC 1:50 - 1:200 IF 1:20 - 1:100

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
Purification	Affinity purification
Note	For Research Use Only (RUO).
Protein Name	Programmed cell death 1 ligand 1 PD-L1 PDCD1 ligand 1 Programmed death ligand 1 B7 homolog 1 B7-H1 CD antigen CD274
Molecular Weight	33.275 kDa
Clonality	Polyclonal
Conjugation	Unconjugated
Isotype	IgG
Formulation	PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
Storage Instruction	Store at -20C. Avoid freeze / thaw cycles.
Database Links	HGNC:17635 OMIM:605402 Reactome:R-HSA-389948
Alternative Names	Programmed cell death 1 ligand 1 PD-L1 PDCD1 ligand 1 Programmed death ligand 1 B7 homolog 1 B7-H1 CD antigen CD274
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,
Cellular Localization	Cell membrane