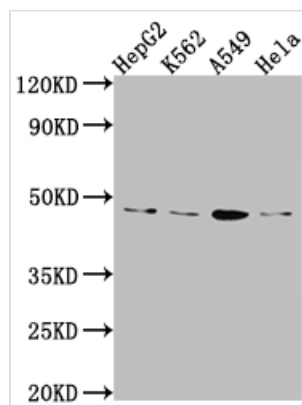




CD274 Recombinant Monoclonal Antibody

Product Code	CSB-RA977797A0HU
Storage	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
Uniprot No.	Q9NZQ7
Immunogen	A synthesized peptide derived from human PD-L1 (CD274)
Species Reactivity	Human
Tested Applications	ELISA, WB, IHC; Recommended dilution: WB:1:500-1:5000, IHC:1:50-1:200
Relevance	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.
Form	Liquid
Conjugate	Non-conjugated
Storage Buffer	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purification Method	Affinity-chromatography
Isotype	Rabbit IgG
Clonality	Monoclonal
Product Type	Recombinant Antibody
Immunogen Species	Homo sapiens (Human)
Research Area	Cancer; Immunology
Gene Names	CD274
Clone No.	10D4

Image



Western Blot

Positive WB detected in: HepG2 whole cell lysate, K562 whole cell lysate, A549 whole cell lysate, HeLa whole cell lysate

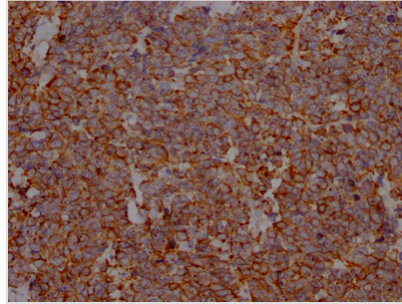
All lanes: CD274 Antibody at 1:1000

Secondary

Goat polyclonal to rabbit IgG at 1/50000 dilution

Predicted band size: 34, 21, 21 kDa

Observed band size: 45 kDa



IHC image of CSB-RA977797A0HU diluted at 1:100 and staining in paraffin-embedded human lung cancer performed on a Leica BondTM system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4? overnight. The primary is detected by a Goat anti-rabbit IgG polymer labeled by HRP and visualized using 0.05% DAB.

Description

CD274, also called PD-L1, is expressed on activated T cells, B cells, and NKT cells. PD-L1 binds PD-1 to deliver the potent inhibitory signaling that inactivates T cells or other immune cells, which is essential to the maintenance of homeostasis of the immune systems. PD-L1 is found to be overexpressed in both solid tumors and hematologic malignancies and is important for the elusion of tumor cells from immune surveillance by inhibiting T cells functions through its receptor PD-1. High CD274 expression is usually associated with poor clinical outcomes. Accumulating evidence demonstrates that functional monoclonal antibodies of PD-L1 may potentially enhance the anti-tumor effect in many cancers.

The main steps in the production of this CD274 recombinant antibody include immunization; harvest of positive spleen cells; obtaining the antibody sequence by screening and sequencing; expression of the target antibody in mammalian cells; purification. The CD274 antibody was produced recombinantly and has many advantages: high reproducibility, specificity and scalability. And has been validated in ELISA, WB, IHC.