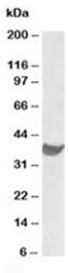
PD-L1 Antibody Goat Polyclonal (R33263)

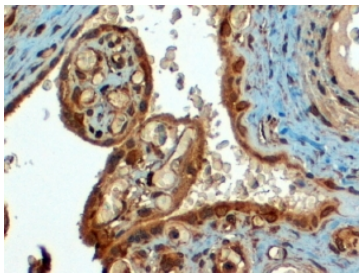
Catalog No.	Formulation	Size
R33263-100UG	0.5 mg/ml in 1X TBS, pH7.3, with 0.5% BSA (US sourced) and 0.02% sodium azide	100 ug

Bulk quote request

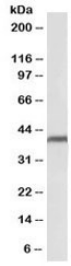
Availability	1-3 business days
Species Reactivity	Human
Format	Antigen affinity purified
Host	Goat
Clonality	Polyclonal (goat origin)
Isotype	Goat Ig
Purity	Antigen affinity
Gene ID	29126
Localization	Cytoplasmic, membranous
Applications	Western Blot : 1-3ug/ml Immunohistochemistry (FFPE) : 4-6ug/ml ELISA (peptide) LOD : 1:128000
Limitations	This PD-L1 antibody is available for research use only.



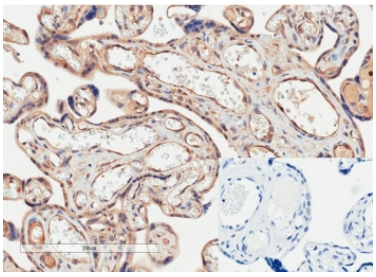
Western blot testing of human heart lysate with PD-L1 antibody goat polyclonal at 1ug/ml. Predicted molecular weight ~34 kDa (unmodified), 45-70 kDa (glycosylated).



IHC staining of FFPE human placenta with PD-L1 antibody at 4ug/ml. HIER: steamed with pH9 Tris/EDTA buffer, HRP-staining.



Western blot testing of human heart lysate with PD-L1 antibody at 0.1ug/ml. Predicted molecular weight ~34 kDa (unmodified), 45-70 kDa (glycosylated).



IHC testing of FFPE human placenta tissue with PD-L1 antibody goat polyclonal at 2ug/ml. Required HIER: steamed antigen retrieval with pH6 citrate buffer; HRP-staining.

Description

Programmed death-ligand 1 (PD-L1), encoded by the CD274 gene, is a type I transmembrane immune checkpoint protein that regulates T cell activity and helps maintain immune tolerance. PD-L1 Antibody Goat Polyclonal recognizes this immunomodulatory ligand, which is widely known in the literature as PD-L1, CD274, or B7-H1. PD-L1 belongs to the B7 family of immune regulatory molecules and interacts with the programmed cell death protein 1 (PD-1) receptor expressed on activated T lymphocytes. Engagement of PD-L1 with PD-1 transmits inhibitory signals that suppress T cell proliferation, cytokine production, and cytotoxic responses, providing an important mechanism for controlling immune activation and preventing tissue damage during inflammatory responses.

Under normal physiological conditions, PD-L1 expression occurs on several immune cell populations, including dendritic cells, macrophages, and activated B cells, as well as on various epithelial and endothelial cells. Expression can be strongly induced by inflammatory mediators, particularly interferon-gamma, which activates transcriptional pathways that increase CD274 expression during immune stimulation. Through these mechanisms, PD-L1 helps regulate immune homeostasis and contributes to the balance between immune activation and immune suppression in many tissues.

The CD274 gene is located on chromosome 9p24.1 and encodes a glycosylated cell surface protein containing extracellular immunoglobulin-like domains typical of B7 family members. PD-L1 is primarily localized to the plasma membrane, where it functions as a ligand for PD-1 on T cells. In addition to its physiological immune regulatory roles, PD-L1 expression has been widely studied in the context of tumor immunology. Many cancers increase PD-L1 expression on malignant epithelial cells or tumor-associated immune cells, allowing tumors to suppress anti-tumor immune responses and evade immune surveillance. Because of this role, CD274 antibody reagents are frequently used in research investigating immune checkpoint signaling, tumor immune evasion, and inflammatory signaling pathways within the tumor microenvironment.

Several widely recognized literature synonyms exist for this immune checkpoint ligand, including PD-L1, Programmed death-ligand 1, B7-H1, and PDCD1 ligand 1. These alternate names are commonly used in immunology and oncology

research and help ensure consistent recognition of the CD274 immune checkpoint protein across scientific studies. PD-L1 antibody reagents are frequently applied in studies evaluating immune checkpoint biology, tumor immune interactions, and immune cell signaling pathways. This goat polyclonal PD-L1 antibody is suitable for detecting PD-L1 expression in research applications and is available from NSJ Bioreagents.

This PD-L1 antibody is part of a broader PD-L1 antibody panel offered by NSJ Bioreagents.

Application Notes

Optimal dilution of the PD-L1 antibody goat polyclonal should be determined by the researcher.

Immunogen

Amino acids CKKQSDTHLEET were used as the immunogen for this PD-L1 antibody.

Storage

Aliquot and store the PD-L1 antibody at -20oC.