Monoclonal Anti-PD-L1 Antibody, Mouse IgG1 (1G1)

Catalog # HCB-Y128

Background

Programmed death ligand 1 (PD-L1) is the principal ligand of programmed death 1 (PD-1), a coinhibitory receptor that can be constitutively expressed or induced in myeloid, lymphoid, normal epithelial cells and in cancer. A key immune checkpoint is triggered when PD-1 (programmed cell death protein 1) engages its ligand PD-L1. As a result of this interaction, T cell activation is attenuated and an active immune response is prevented.
This mechanism is often co-opted by tumors. PD-L1 is upregulated in several tumor types and contributes to the malignancy of these cancers by interacting with PD-1 and inhibiting T cell activation. In this way, the tumors avoid detection and destruction by the immune system. Accordingly, PD-1 and PD-L1 have garnered much attention for their roles in tumor immunology and as immune-based therapeutic targets.

Host Species

Mouse

Clone

1G1

Application

IHC

Property

1：500

State

Liquid

Positive Control

Human Tonsil Tissues

Clonality

Monoclonal

Synonym

PDL1, PD-L1, CD274, B7-H1, B7H1

Research Field

Cancer Drug Targets

Source

Mouse

Isotype

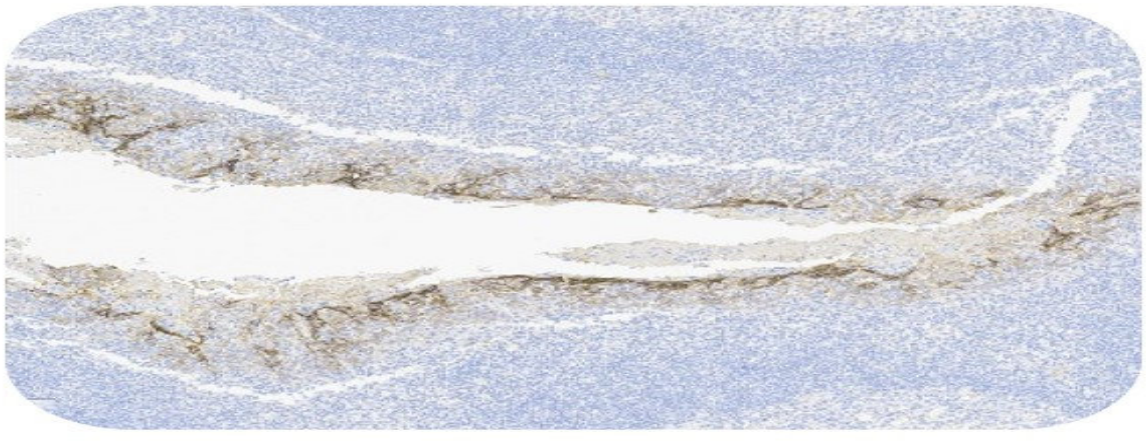
IgG

Storage

Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.

Typical Data

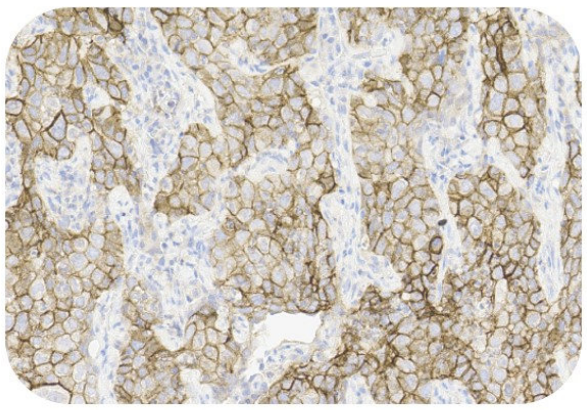
Control Sample



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) -Monoclonal Anti-PD-L1 Antibody, Mouse IgG1 (1G1)(HCB-Y128)
Human Tonsil Tissue, 10X

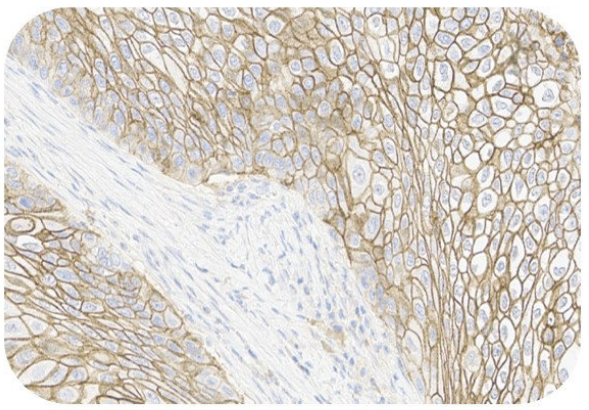
Immunohistochemical analysis of paraffin-embedded human tonsil tissue labeling PD-L1 with HCB-Y128 at 1/500 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) ready to use. epithelial portion of tonsillar crypts is observed as strong positive staining, follicular macrophages in the germinal center are observed as weak to medium positive staining, endothelial cells, fibroblasts, and surface epithelial cells are all observed as negative staining. Counter stained with Hematoxylin. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

Cancer Sample



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) -Monoclonal Anti-PD-L1 Antibody, Mouse IgG1 (1G1)(HCB-Y128)

Human Lung Adenocarcinoma Tissue, 20X



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) -Monoclonal Anti-PD-L1 Antibody, Mouse IgG1 (1G1)(HCB-Y128)

Human Esophageal Cancer Tissue, 20X

Immunohistochemical analysis of paraffin-embedded human cancer tissue labeling PD-L1 with HCB-Y128 at 1/500 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) ready to use. Membranous staining on human cancer tumor cells is observed. Counter stained with Hematoxylin. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

Clinical and Translational Updates

Please contact us via TechSupport@acrobiosystems.com if you have any question on this product.