

Mouse PD-L1 Antibody

Purified (PhenoCycler-Fusion (CODEX)® Ready)

Monoclonal Antibody

Product Information

Product No.: P502

Clone: 10F.9G2

RRID: AB_2892954

Isotype: Rat IgG2b κ

Storage: Sterile 2 to 8°C

Product Description

Specificity:

Clone 10F.9G2 recognizes an epitope on mouse PD-L1.

Antigen Distribution:

PD-L1 is present on T cells, B cells, NK cells, dendritic cells, IFN- γ activated endothelial cells, and monocytes.

Background:

PD-1 is a 50-55 kD member of the B7 Ig superfamily. PD-1 is also a member of the extended CD28/CTLA-4 family of T cell regulators and is suspected to play a role in lymphocyte clonal selection and peripheral tolerance. The ligands of PD-1 are PD-L1 and PD-L2, and are also members of the B7 Ig superfamily. PD-1 and its ligands negatively regulate immune responses. PD-L1, or B7-Homolog 1, is a 40 kD type I transmembrane protein that has been reported to costimulate T cell growth and cytokine production. The interaction of PD-1 with its ligand PD-L1 is critical in the inhibition of T cell responses that include T cell proliferation and cytokine production. PD-L1 has increased expression in several cancers. Inhibition of the interaction between PD-1 and PD-L1 can serve as an immune checkpoint blockade by improving T-cell responses in vitro and mediating preclinical antitumor activity. Within the field of checkpoint inhibition, combination therapy using anti-PD1 in conjunction with anti-CTLA4 has significant therapeutic potential for tumor treatments. PD-L2 is a 25 kD type I transmembrane ligand of PD-1. Via PD-1, PD-L2 can serve as a coinhibitor of T cell functions. Regulation of T cell responses, including enhanced T cell proliferation and cytokine production, can result from mAbs that block the PD-L2 and PD-1 interaction.

Known Reactivity Species:

Mouse

Format:

Purified (PhenoCycler® Ready)

Immunogen:

Unknown

Formulation

This purified antibody is formulated in 0.01 M phosphate buffered saline (150 mM NaCl) PBS pH 7.4.

Storage and Stability

This antibody is stable for at least one week when stored at 2-8°C. For long term storage, aliquot in working volumes without diluting and store at -20°C in a manual defrost freezer.

Avoid Repeated Freeze Thaw Cycles.

Applications

Applications and Recommended Usage (Quality Tested By Leinco):

CODEX® This PDL-1 [Clone 10F.9G2] antibody is formulated to simplify the antibody preparation needed when performing a CODEX® barcode conjugate. The suggested concentration is 0.5 mg/ml.

Country of Origin

USA

References

- 1) Ardolino, M. *et al.* (2018) *J Clin Invest.* **128**(10):4654-4668. [PubMed](#)
- 2) Schreiber, RD. *et al.* (2017) *Cancer Immunol Res.* **5**(2):106-117.