

Anti-PD-L2 [24F.10C12] Bulk Size Ab02439-10.3-BT

This antibody was created using our proprietary Fc Silent™ engineered Fc domain containing key point mutations that abrogate binding to Fc gamma receptors.

This chimeric human antibody was made using the variable domain sequences of the original Mouse IgG2a format, for improved compatibility with existing reagents, assays and techniques.

Isotype and Format: Human IgG1, Fc Silent™, Kappa

Clone Number: 24F.10C12

Alternative Name(s) of Target: CD273; PDL2; PDCD1LG2; PDCD1L2; PD-1 ligand 2; PDCD1 ligand 2; PDCD1 ligand 2; Programmed cell death 1 ligand 2; Butyrophilin B7-DC; B7-DC

UniProt Accession Number of Target Protein: Q9BQ51

Published Application(s): Block, ELISA, FC, IHC

Published Species Reactivity: Human

Immunogen:

Specificity: This antibody binds human PD-L2, expressed on dendritic cells, IFN-gamma-treated monocytes, placental endothelium and medullary thymic epithelial cells.

Application Notes: This antibody can recognize PD-L2-Fc in an ELISA. Flow cytometric analysis with whole anti-PD-L2 mAb 24F.10C12 and its Fab version revealed approximately the same mean fluorescence intensity upon binding PD-L2 transfected cells. This antibody is capable of blocking the binding of PD-1-Ig to PD-L2 in a dose-dependent manner and with high avidity. This antibody was also used for the immunohistochemical studies of various tissues including thymus, germinal center, placenta, cardiac tissues, and tumors. Blockade of PD-L2 on dendritic cells results in enhanced T cell proliferation and cytokine production, including that of IFN-gamma and IL-10. Both the whole antibody version and Fab version enhanced T cell activation, showing that PD-L2 functions to inhibit T cell activation (PMID: 12538684). This antibody was used for the study of PD-1 pathway on the activation of naive, memory, and recently activated human CD4+ T cells (PMID: 15598424). Antibody blockade of endothelial cell PD-L2 enhanced endothelial cell costimulation of PHA-activated human CD8+ T cells (PMID: 14579280).

Antibody First Published in: Brown et al. Blockade of programmed death-1 ligands on dendritic cells enhances T cell activation and cytokine production. J Immunol. (2003); 170(3):1257-66. [PMID:12538684](#)

Note on publication: Describes the generation of this antibody and its tests its capability to block interaction between PD-1 and PD-L2 on dendritic cells.

Product Form

Size: 1 mg Purified antibody in bulk size.

Purification: Protein A affinity purified

Supplied In: PBS only.

Storage Recommendation: Store at 4°C for up to 3 months. Note, this antibody is provided without added preservatives, it is therefore recommended this antibody be handled under sterile conditions. For longer storage, aliquot and store at -20°C.

Concentration: 1 mg/ml.

Important note – This product is for research use only. It is not intended for use in therapeutic or diagnostic procedures for humans or animals.