

# Durvalumab Biosimilar, PD-L1 Monoclonal Antibody

Catalog No.: YR0086

## Basic Information

### Molecular Weight

150 kDa

### Endotoxin

<1EU/mg (<0.001EU/μg) Determined by LAL gel clotting assay

### Sterility

0.2 μm filtration

### Aggregation

<5% Determined by SECP

### Purity

>95% Determined by SDS-PAGE

## Background

Durvalumab Biosimilar uses the same protein sequences as the therapeutic antibody durvalumab. PD-L1 and PD-L2 (B2-DC or CD273, programmed cell death ligand 2) are the two ligands for the receptor PD1 (CD279, programmed death 1). Durvalumab is a humanized monoclonal antibody directed against the human protein ligand PD-L1 (B7-H1 or CD274, programmed cell death ligand 1). Durvalumab completely blocks the binding of PDL1 to both PD-1 and CD80, with IC50s of 0.1 and 0.04 nM, respectively. Durvalumab is an anticancer antibody that works to promote the antitumor response mediated by immune cells. By blocking the action of PD-L1, durvalumab exerts its anticancer effects by increasing T-cell activation, enhancing detection and ablation of tumor cells. In in vitro assays, durvalumab inhibited the activity of PD-L1 in a concentration-dependent manner. In co-engrafted human tumor and immune cell xenograft mouse models, durvalumab was effective in decreasing tumor size. Durvalumab does not mediate antibody-dependent cell-mediated cytotoxicity (ADCC).

## Reported Applications

ELISA, neutralization, functional assays such as bioanalytical PK and ADA assays, and those assays for studying biological pathways

## Immunogen Information

### Clone

Durvalumab

### Isotype

Human IgG1 kappa

### Immunogen

Human PD-L1

### Recommended Isotype Control(s)

In Vivo Grade Recombinant Human IgG1 Kappa Isotype Control Antibody

### Recommended Dilution Buffer

1×PBS pH 7.0

## Contact

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## Product Information

### Production

Purified from cell culture supernatant in an animal-free facility

### Purification

Protein A or G purification

### Storage

2 - 8°C for up to 4 weeks and -80°C for long term storage (Avoid repeated freezing and thawing)