Datasheet for ABIN7200665

Recombinant anti-CD274 (Avelumab Biosimilar) antibody

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Overview

Quantity:	1 mg
Target:	CD274 (Avelumab Biosimilar)
Reactivity:	Human
Host:	Mouse
Antibody Type:	Recombinant Antibody
Clonality:	Monoclonal
Conjugate:	This CD274 (Avelumab Biosimilar) antibody is un-conjugated
Application:	In vivo Studies (in vivo), Flow Cytometry (FACS)

Product Details

Purpose:	Avelumab Biosimilar, Human PD-L1 Monoclonal Antibody
Immunogen:	The anti-human PD-L1 monoclonal antibody avelumab biosimilar was produced in the avelumab biosimilar Chinese Hamster Ovary (CHO) stable cell line.
Isotype:	IgG1 kappa
Specificity:	The in vivo grade avelumab biosimilar specifically binds to the programmed death ligand 1 (PD-L1), blocking its interaction with PD-1 and B7-1.
Characteristics:	Recombinant Humanized IgG1 Monoclonal Antibody.
Purification:	Protein A affinity column
Purity:	> 95% by SDS-PAGE under reducing conditions and HPLC.
Sterility:	0.2 μm filtered

Product Details

Endotoxin Level:	< 1 EU per 1 mg of the protein by the LAL method.

Target Details

Target:	CD274 (Avelumab Biosimilar)
Target Type:	Biosimilar
Background:	What is Avelumab biosimilar research grade? Avelumab is a humanized monoclonal antibody directed against the human protein ligand PD-L1 (B7-H1 or CD274, programmed cell death ligand 1), with potential antibody-dependent cell-mediated cytotoxicity property. Avelumab is used for the treatment of several kinds of carcinoma. Avelumab biosimilar uses the same protein sequences as the therapeutic antibody of Avelumab.
	PD-L1 (B7-H1 or CD274, programmed cell death ligand 1) and PD-L2 (B2-DC or CD273, programmed cell death ligand 2) are the two ligands for the receptor PD-1 (CD279, programmed death 1). PD-L1 is an immune checkpoint molecule expressed on both tumor cells and certain immune cells. The binding of PD-L1 to its receptors PD-1 or B7.1 on activated T cells causes an inhibitory signal to suppress their production in the lymph nodes, thereby preventing immune responses to events such as pregnancy or autoimmune disease. This pathway is also utilized by cancer cells to evade the immune system through evasion of anti-tumor T-cell response. Furthermore, over-expression of PD-L1 and PD-1 has been linked to increased tumor aggressiveness and poorer prognosis. Avelumab binds directly and selectively to PD-L1 and blocks interaction with both PD-1 and B7.1 receptors, thus reinvigorates and enhances the body's adaptive anti-cancer activity. Disrupting the PD-L1/B7.1 interaction may also enhance T-cell priming, which could result in increased duration of response and survival.

Application Details

Application Notes:	ELISA, neutralization, functional assays such as bioanalytical PK and ADA assays, and those assays for studying biological pathways affected by avelumab.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	1 mg/mL
Buffer:	PBS, pH 7.4, no stabilizers or preservatives.

Handling

Preservative:	Without preservative
Handling Advice:	Use a manual defrost freezer and avoid repeated freeze-thaw cycles.
Storage:	-20 °C
Storage Comment:	12 months from date of receipt, -20 to -70°C as supplied. 1 month from date of receipt, 2 to 8°C as supplied.
Expiry Date:	12 months