Human PD-1 Monoclonal Antibody

Catalog No.: YR0001



Basic Information

Molecular Weight

150 kDa

Endotoxin

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

Sterility

0.2 µm filtration

Aggregation

<5% Determined by SECP

Purity

>95% Determined by SEC-HPLC

Background

What is Pembrolizumab biosimilar research grade? Pembrolizumab is a highly selective IgG4-kappa humanized monoclonal antibody against PD-1 receptor. It was generated by grafting the variable sequences of a very high-affinity mouse antihuman PD-1 antibody onto a human IgG4-kappa isotype with the containing a stabilizing S228P Fc mutation. It contains 32 cysteine residues and the complete folded molecule includes 4 disulfide linkages as interchain bonds and 23 interchain bonds. Pembrolizumab Biosimilar uses the same protein sequences as the therapeutic antibody pembrolizumab.

Reported Applications

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

Immunogen Information

Clone

Isotype

Pembrolizumab Biosimilar

human IgG4 kappa

Immunogen

Human PD-1

RecommendedIsotype Control(s)

In Vivo Grade Recombinant Human IgG4-S228P Kappa Isotype Control Antibody

Recommended Dilution Buffer

1×PBS pH 7.3

Contact

<u>a</u>		400-999-6126
\bowtie		cn.market@abclonal.com.cn
•	T	www.abclonal.com.cn

Product Information

Production

Purification

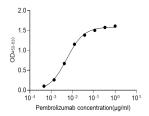
Purified from cell culture supernatant in an animal-free facility

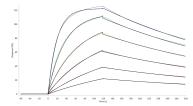
Protein A or G purification

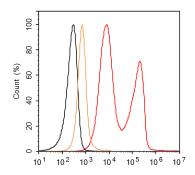
Storage

Store at $2 - 8^{\circ}$ C. $2 - 8^{\circ}$ C for up to 4 weeks and -80° C for long term storage (Avoid repeated freezing and thawing)

Recombinant Human PD-1/PDCD1/CD279 Protein







Direct ELISA binding curve demonstrating the recognition of Human Anti-Human PD-1 (Research Grade Pembrolizumab Biosimilar) Monoclonal Antibody to PD-1. The target protein was coated onto the microplate well surface, followed by binding of the antibody. A donkey anti-human IgG HRP conjugate was used for detection.

Determined through SPR assay, the Human Anti-Human PD-1 (Research Grade Pembrolizumab Biosimilar) Monoclonal Antibody is capable of binding to Human PD-1 with an affinity constant of 1.282 nM.

Detection of PD-1 in HEK 293 cells by Flow Cytometry. HEK 293 cells transfected hPD-1 was stained with Human Anti-Human PD-1 (Research Grade Pembrolizumab Biosimilar) Monoclonal Antibody followed by APC conjugated Anti-Human IgG Secondary Antibody, or unstained cells (open yellow histogram).