

Rev05  
Update: Jan,07,2025

## DATASHEET

# Anti-Atezolizumab Antibody (10G9), mAb, Mouse

Cat. No.: A01948

## Overview

<b>Specificity</b>	The product is specific for Atezolizumab. The antibody is recommended as a capture antibody in a pharmacokinetic (PK) bridging assay with detection antibody GenScript, A01950-40, Anti-Atezolizumab Antibody (6B12) [Biotin], mAb, Mouse.
<b>Host Species</b>	Mouse
<b>Immunogen</b>	Atezolizumab
<b>Conjugate</b>	Unconjugated

## Applications

Working concentrations for specific applications should be determined by the investigators. The appropriate concentration may be affected by secondary antibody affinity, antigen concentration, the sensitivity of the method of detection, temperature, the length of the incubations, and other factors. The suitability of this antibody for applications other than those listed below has not been determined. The following concentration ranges are recommended starting points for this product.

<b>Application</b>	<b>Recommended Usage</b>
ELISA	0.01-1 µg/ml

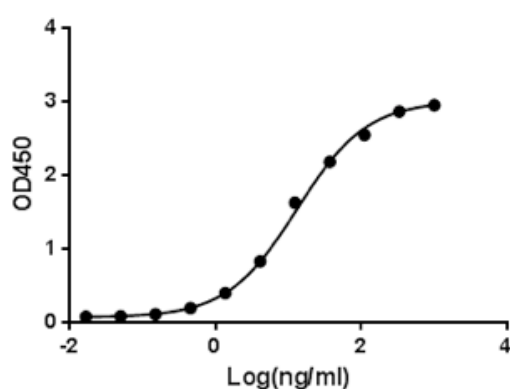
## Properties

<b>Form</b>	Lyophilized
<b>Storage Buffer</b>	lyophilized with PBS, pH 7.4, contains 0.02% sodium azide.
<b>Reconstitution</b>	Reconstitute the lyophilized powder with deionized water (or equivalent) to an final concentration of 0.5 mg/mL.
<b>Storage Instructions</b>	The lyophilized product remains stable up to 1 year at -20 °C from date of receipt. Upon reconstitution, it can be stored for 2-3 weeks at 2-8 °C or for up to 12 months at -20 °C or below. Avoid freeze/thaw cycles.
<b>Purification</b>	Protein A affinity column

Isotype	Mouse IgG1, $\kappa$
Clonality	Monoclonal
Clone ID	10G9
Note	GenScript can customize this product per customer's request including product size, buffer components, etc.

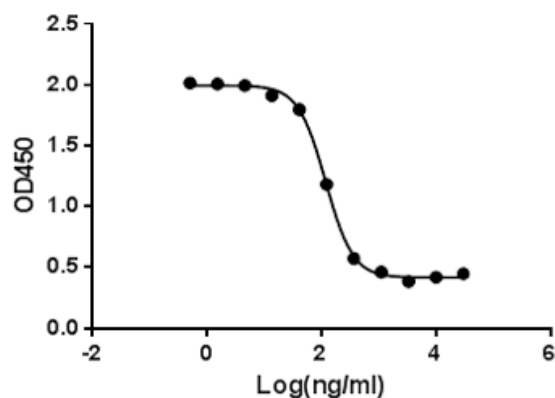
## Examples

**Clone 10G9 ELISA binding with Atezolizumab**

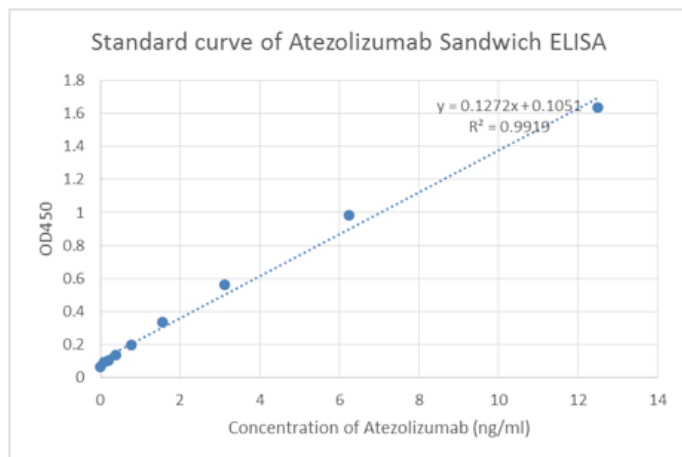


Anti-Atezolizumab Antibody (10G9), mAb, Mouse (GenScript, A01948-40) binds with Atezolizumab. While the antibody does not recognize the human IgG Fc fragment (data not shown). Coating antigen: Atezolizumab, 1  $\mu$ g/ml. Anti-Atezolizumab antibody (GenScript, A01948-40) dilution start from 1,000 ng/ml.  $EC_{50}$ = 13.19 ng/ml.

**Clone 10G9 blocking with PD-L1**



Anti-Atezolizumab Antibody (10G9), mAb, Mouse (GenScript, A01948-40) blocks Atezolizumab binding with PD-L1. Coating antigen: Atezolizumab, 0.5  $\mu$ g/ml. Anti-Atezolizumab Antibody (10G9), mAb, Rabbit (GenScript, A01948-40) final concentration: 75 ng/ml. PD-L1 dilution start from 30  $\mu$ g/ml.  $IC_{50}$ = 118.2 ng/ml.



Standard curve of Atezolizumab Sandwich ELISA. The Atezolizumab Sandwich ELISA assay is developed by using Anti-Atezolizumab Antibody (10G9), mAb, Mouse (GenScript, A01948-40) and Anti-Atezolizumab Antibody (6B12) [Biotin], mAb, Mouse (GenScript, A01950-40) as capture and detection antibody, respectively.

The sensitivity of detecting Rituximab is about 97 pg/ml.

## Background

**Target Background :** Atezolizumab is a fully humanized, engineered monoclonal antibody of IgG1 isotype against the protein programmed cell death-ligand 1 (PD-L1). Atezolizumab blocks the interaction of PD-L1 with programmed cell death protein 1 (PD-1) and CD80 receptors (B7-1Rs). PD-L1 can be highly expressed on certain tumors, which is thought to lead to reduced activation of immune cells (cytotoxic T-cells in particular) that might otherwise recognize and attack the cancer. Inhibition of PD-L1 by atezolizumab can remove this inhibitor effect and thereby engender an anti-tumor response. It is one of several ways to block inhibitory signals related to T-cell activation, a more general strategy known as "immune checkpoint inhibition."

**Synonyms :** Mouse monoclonal to Tecentriq

**For laboratory research use only. Direct human use, including taking orally and injection and clinical use are forbidden.**

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