

# Anti-Adalimumab Antibody (AY19)

Catalog # ADB-Y19



## Source

Anti-Adalimumab Antibody (AY19) is a Mouse monoclonal antibody produced from a hybridoma created by fusing SP2/0 myeloma and Mouse B-lymphocytes.

## Clone

AY19

## Species

Mouse

## Isotype

Mouse IgG1/kappa

## Antibody Type

Hybridoma Monoclonal

## Reactivity

Human

## Immunogen

Adalimumab.

## Specificity

Recognizes Adalimumab specifically, no cross reactivity with other humanized antibodies.

## Application

Application	Recommended Usage
ELISA	5-600 ng/mL

## Purity

>95% as determined by SDS-PAGE.

## Purification

Protein A purified/ Protein G purified

## Formulation

Lyophilized from 0.22  $\mu$ m filtered solution in Tris with Glycine, Arginine and NaCl, pH7.5 with trehalose as protectant.

Contact us for customized product form or formulation.

## Reconstitution

Please see Certificate of Analysis for specific instructions.

*For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.*

## Storage

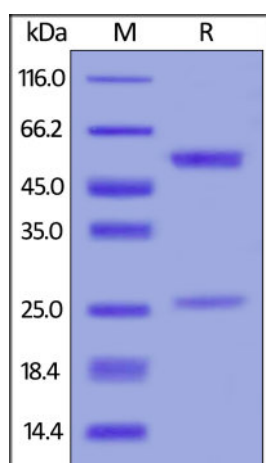
For long term storage, the product should be stored at lyophilized state at  $-20^{\circ}\text{C}$  or lower.

*Please avoid repeated freeze-thaw cycles.*

This product is stable after storage at:

- $4-8^{\circ}\text{C}$  for 12 months in lyophilized state;
- $-70^{\circ}\text{C}$  for 12 months under sterile conditions after reconstitution.

## SDS-PAGE



Anti-Adalimumab Antibody (AY19) on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein

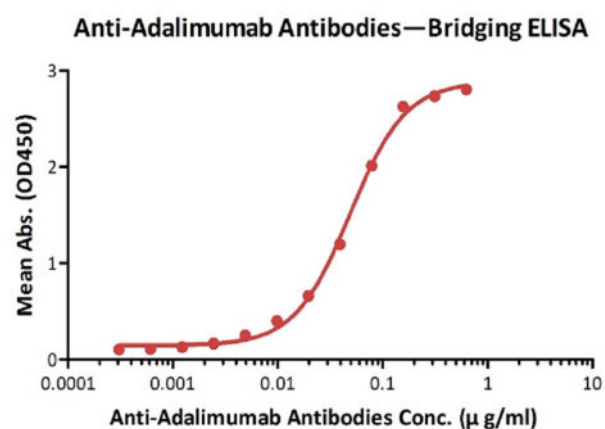
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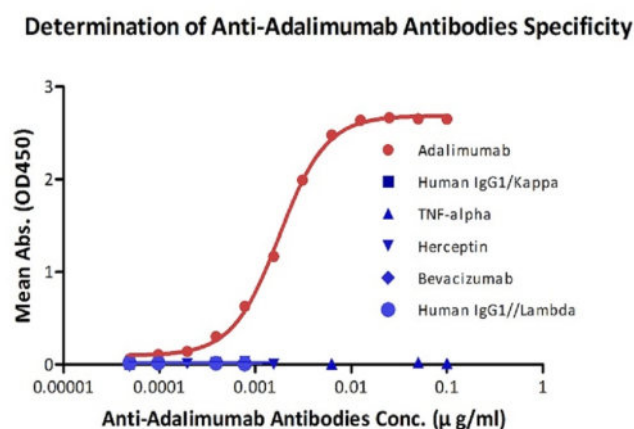


is greater than 95%.

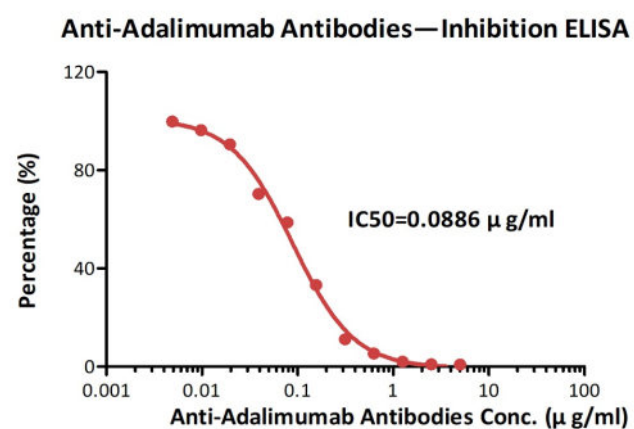
## Bioactivity-ELISA



Anti-Adalimumab Antibodies bridging ELISA for Anti-Drug Antibody (ADA) assay development. Immobilized adalimumab at 1 µg/mL, add increasing concentrations of Anti-Adalimumab Antibody (AY19) (Cat. No. ADB-Y19, 10% human serum) and then add biotinylated adalimumab at 5 µg/mL. Detection was performed using HRP-conjugated streptavidin with a sensitivity of 0.6 ng/mL (QC tested).

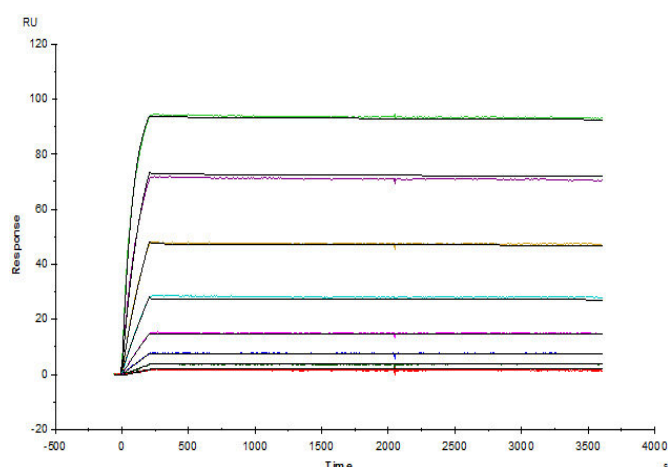


Demonstration of the specificity of Anti-Adalimumab Antibody (AY19) (Cat. No. ADB-Y19) to the adalimumab.



Measured by its neutralizing ability in a functional ELISA. Immobilized adalimumab at 0.5 µg/mL (100 µL/well) can bind pre-mixed Anti-Adalimumab Antibody (AY19) (Cat. No. ADB-Y19) and Biotinylated Human TNF-alpha, His, Avitag (Cat. No. TNA-H82E3) with an inhibition rate of 100%.

## Bioactivity-SPR



Anti-Adalimumab Antibody (AY19) (mouse IgG1, Cat. No. ADB-Y19) captured on CM5 chip via anti-mouse antibodies surface, can bind human adalimumab with an affinity constant of 1.36 pM.

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BIOSYSTEMS  
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## Background

Adalimumab is a human monoclonal antibody against TNF-alpha. It is produced by recombinant D technology using a mammalian cell expression system. It consists of 1330 amino acids and has a molecular weight of approximately 148 kilodaltons.

## Clinical and Translational Updates

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