



## Source

Biotinylated Anti-Cetuximab Antibody (AY31) is a Mouse monoclonal antibody produced from a hybridoma created by fusing SP2/0 myeloma and Mouse B-lymphocytes.

## Clone

AY31

## Species

Mouse

## Isotype

Mouse IgG1 | kappa

## Antibody Type

Hybridoma Monoclonal

## Reactivity

Human

## Immunogen

Cetuximab.

## Specificity

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

## Purity

>90% as determined by SDS-PAGE.

## Purification

Protein A purified/ Protein G purified

## Formulation

Lyophilized from 0.22 µm filtered solution in PBS, pH7.4 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

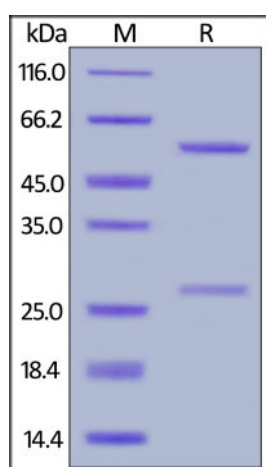
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

*Please avoid repeated freeze-thaw cycles.*

This product is stable after storage at:

- 4-8°C for 12 months in lyophilized state;
- -70°C for 12 months under sterile conditions after reconstitution.

## SDS-PAGE



Biotinylated Anti-Cetuximab Antibody (AY31) on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90%.

## Bioactivity-ELISA

Discounts, Gifts,  
and more!

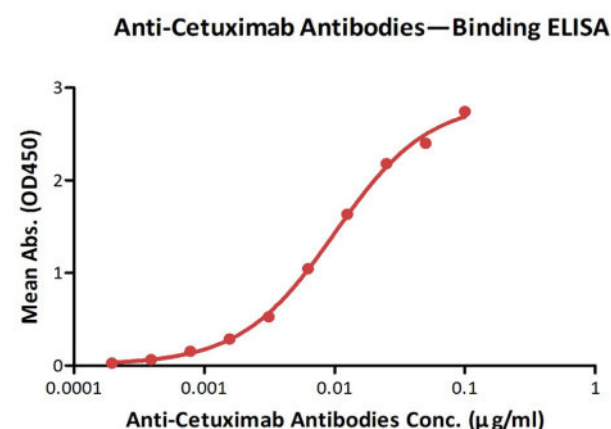
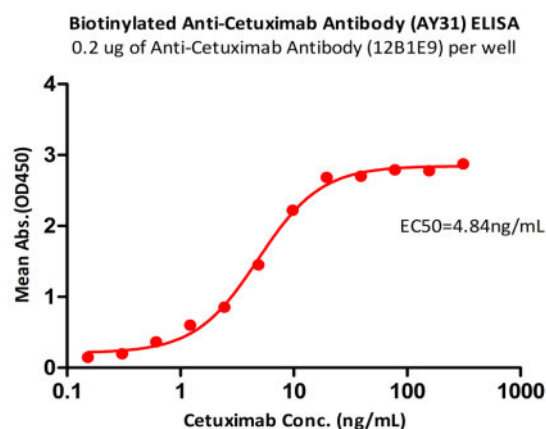


# Biotinylated Anti-Cetuximab Antibody (AY31) (recommended for PK/PD)

Catalog # CEB-BY31

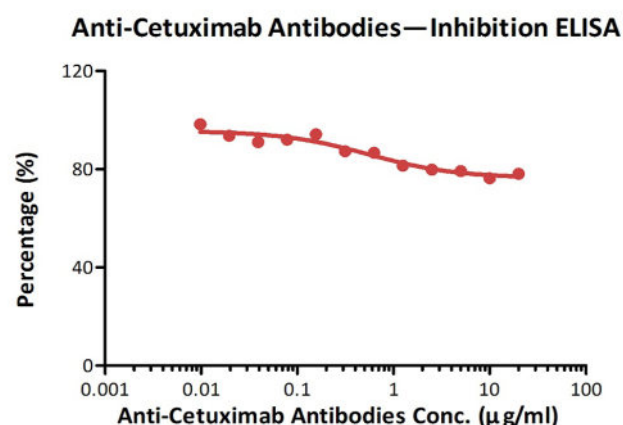


BIOSYSTEMS  
**Acro**



Immobilized Anti-Cetuximab Antibody (12B1E9) (Cat. No. CEB-Y29c) at 2 µg/mL, add increasing concentrations of Cetuximab and then add Biotinylated Anti-Cetuximab Antibody (AY31) (Cat. No. CEB-BY31) at 1 µg/mL. Detection was performed using HRP-conjugated streptavidin with sensitivity of 4.84 ng/mL (QC tested).

Immobilized cetuximab at 0.1 µg/mL (100 µL/well) can bind Biotinylated Anti-Cetuximab Antibody (AY31) (Cat. No. CEB-BY31) with a linear range of 0.39-25 ng/mL.



ELISA analysis shows that the binding of cetuximab to Human EGF R, His Tag (Cat. No. EGR-H5222) was inhibited by increasing concentration of Biotinylated Anti-Cetuximab Antibody (AY31) (Cat. No. CEB-BY31). The concentration of cetuximab used is 3 ng/mL.

## Background

Cetuximab is an epidermal growth factor receptor binding FAB. Cetuximab is composed of the Fv (variable; antigen-binding) regions of the 225 murine EGFR monoclonal antibody specific for the N-terminal portion of human EGFR with human IgG1 heavy and kappa light chain constant (framework) regions.

## Clinical and Translational Updates

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