

## Anti-Tocilizumab Antibody (6C10)[Biotin], mAb, Mouse

### PRODUCT INFORMATION

#### Description

Tocilizumab also known as atlizumab, is a humanized monoclonal antibody that is approved by the U.S. Food and Drug Administration. It has a high affinity to IL-6R and blocks the IL-6 signaling by preventing the formation of the IL-6/IL-6R complex. Tocilizumab is used for the treatment of rheumatoid arthritis (RA) and systemic juvenile idiopathic arthritis, a severe form of arthritis in children.

**Anti-Tocilizumab Antibody (6C10), mAb, Mouse** is produced from a hybridoma resulting from the fusion of partner and B-lymphocytes obtained from a mouse immunized with Tocilizumab.

#### Specificity

The product is specific for Tocilizumab. The antibody is recommended as a detection antibody in a pharmacokinetic (PK) bridging assay with capture antibody GenScript, A01978-40, Anti-Tocilizumab Antibody (14B10), mAb, Mouse.

#### Concentration

0.5 mg/ml, lyophilized with PBS, pH 7.4, containing 1% BSA and 0.02% sodium azide.

#### Note

GenScript can customize this product per the customer's request including product size, buffer components, etc.

#### Reconstitution

Reconstitute the lyophilized antibody with deionized water (or equivalent) to a final concentration of 0.5 mg/ml.

#### Storage

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 repeated freezing and thawing cycles.

#### Applications

Working concentrations for specific applications should be determined by the investigators. The appropriate concentrations 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.

ELISA detection: 0.01-0.1 µg/ml

Other applications: user-optimized

**Cat. No.:** A01980-40

**Host:** Mouse

**Size:** 40 µg

**Ig Subclass:** IgG2b

**Clone:** 6C10

**Immunogen:** Tocilizumab

**Purification:** Protein A affinity column

**Conjugation:** Biotin

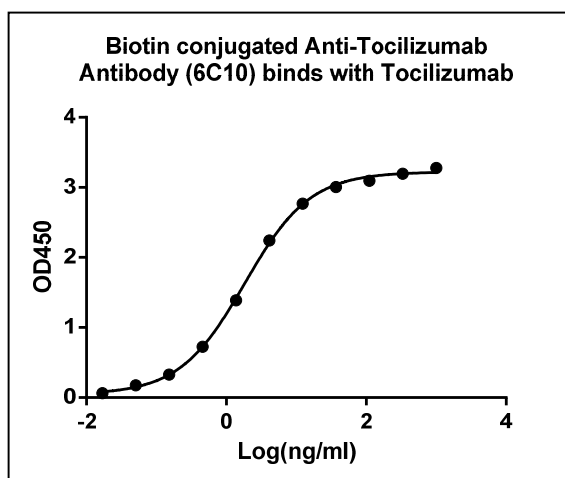
**Version:** 05/04/2018

\*\* For non-clinical research use only. \*\*

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## Example



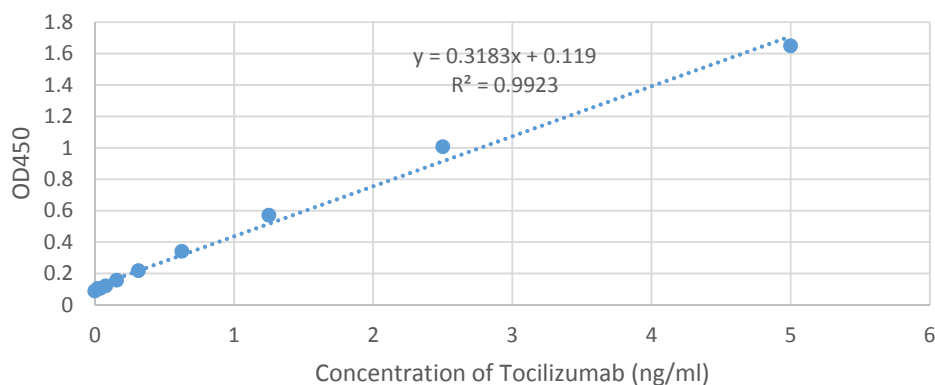
ELISA binding of Anti-Tocilizumab Antibody (6C10)[Biotin] (GenScript, A01980-40) with Tocilizumab. While the antibody does not recognize the human IgG (data not shown).

Coating antigen: Tocilizumab, 1 µg/ml.

Anti-Tocilizumab Antibody (6C10)[Biotin] (GenScript, A01980-40) dilutions start from 1,000 ng/ml.

EC<sub>50</sub>= 1.837 ng/ml.

**Standard curve of Tocilizumab Sandwich ELISA**



Standard curve of Tocilizumab Sandwich ELISA. The Tocilizumab Sandwich ELISA assay is developed by using Anti-Tocilizumab Antibody (14B10), mAb, Mouse (GenScript, A01978-40) and Anti-Tocilizumab Antibody (6C10), mAb, Mouse (GenScript, A01980-40) as the capture and detection antibodies, respectively.

The sensitivity is less than 100 pg/ml.

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