

Anti-Teclistamab Antibody (10H1), mAb, Mouse

Cat. No.: A02253

Overview

Specificity	This product is specific for Teclistamab
Host Species	Mouse
Immunogen	Teclistamab
Conjugate	Unconjugated

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.

Application	Recommended Usage
Sandwich ELISA	0.5-2 µg/ml
ELISA	0.01-1 µg/ml

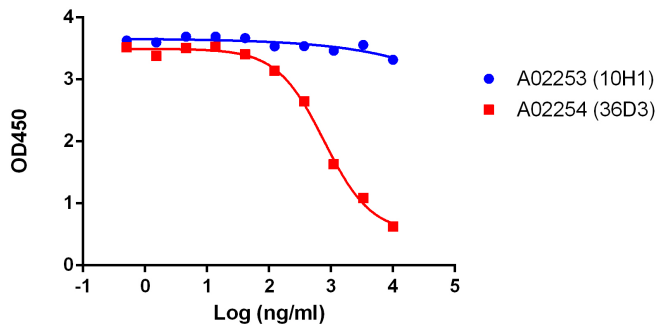
Properties

Form	Lyophilized
Storage Buffer	Lyophilized with PBS, pH 7.2, containing 0.02% sodium azide.
Reconstitution	Reconstitute the lyophilized antibody with deionized water (or equivalent) to a final concentration of 0.5 mg/mL.
Storage Instructions	The lyophilized product remains stable for 1 year at -20°C from the date of receipt. Upon reconstitution, it can be stored for 2-3 weeks at 2-8°C or for 12 months at -20°C or below. Avoid repeated freezing and thawing cycles.
Purification	Protein A affinity column
Isotype	Mouse IgG1, κ
Clonality	Monoclonal

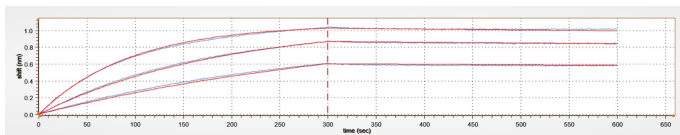
Clone ID	10H1E1
Note	GenScript can customize this product per customer's request including product size, buffer components, etc.

Examples

Anti-Teclistamab Antibody (10H1) or (36D3) inhibits the binding of Teclistamab to Human CD3



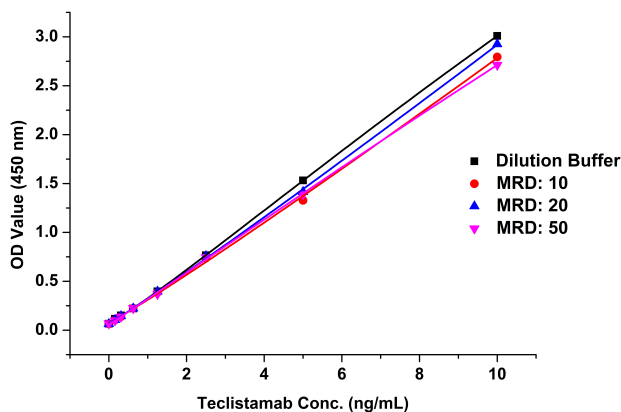
Anti-Teclistamab Antibody (10H1) or (36D3) inhibits the binding of Teclistamab to Human CD3.
 Coating antigen: Teclistamab 1 µg/ml.
 Human CD3 final concentration: 3 ng/ml.
 Anti-Teclistamab antibody dilutions start from 10 µg/ml.
 Anti-Teclistamab Antibody (10H1), mAb, Mouse (GenScript, A02253) exhibited non-inhibitory properties, whereas Anti-Teclistamab Antibody (36D3), mAb, Mouse (GenScript, A02254) demonstrated significant inhibitory properties with an IC₅₀ value of 0.77 µg/ml.



BLI (Biolayer interferometry) binding affinity measurements of Anti-Teclistamab Antibody (10H1), mAb, Mouse (GenScript, A02253) to Teclistamab.

Teclistamab captured on HFC (Anti-Human IgG Fc) Probes can bind Anti-Teclistamab Antibody (10H1), mAb, Mouse with dissociation constant (KD) of 3.32E-10M.

MRD Analysis of the detection of Teclistamab in biological matrix

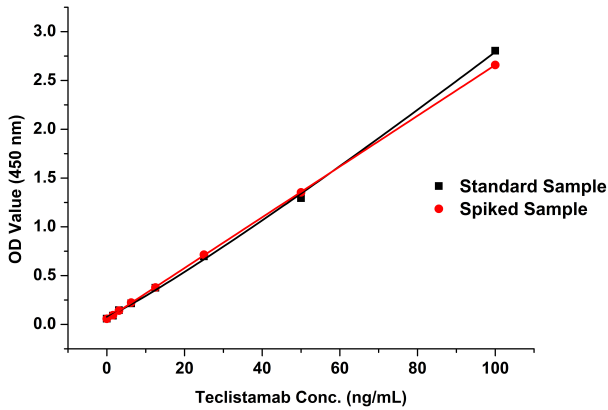


MRD analysis of the detection of Teclistamab in biological matrix.

The MRD is the minimum dilution necessary for the detection of Teclistamab in biological matrix with least interference. Serum samples from cynomolgus monkey were serially diluted to determine the MRD of this assay, and the test result suggested that MRD was as 1:10.

In this ELISA assay, Anti-Teclistamab Antibody (10H1), mAb, Mouse (GenScript, A02253) was coated at a concentration of 1 µg/ml, and Anti-Teclistamab Antibody (36D3), mAb, Mouse (GenScript, A02254) conjugated with Biotin was used as a detection antibody at a concentration of 0.5 µg/ml.

Specificity analysis of the detection of Teclistamab

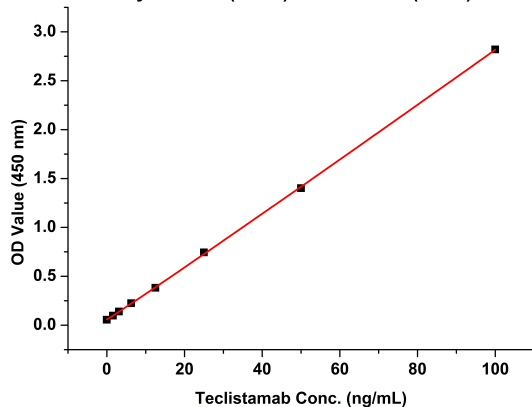


Specificity analysis of the detection of Teclistamab.

Teclistamab standard samples at 8 concentrations were spiked with 2 µg/mL of human IgG4. The test result demonstrated that the high concentration of human IgG4 did not interfere with the detection of Teclistamab.

In this ELISA assay, Anti-Teclistamab Antibody (10H1), mAb, Mouse (GenScript, A02253) was coated at a concentration of 1 µg/ml, and Anti-Teclistamab Antibody (36D3), mAb, Mouse (GenScript, A02254) conjugated with Biotin was used as a detection antibody at a concentration of 0.5 µg/ml.

Standard curve of Teclistamab Sandwich ELISA by A02253 (10H1) and A02254 (36D3)



Standard curve of Teclistamab sandwich ELISA by A02253 (10H1) and A02254 (36D3).

In this ELISA assay, Anti-Teclistamab Antibody (10H1), mAb, Mouse (GenScript, A02253) was coated at a concentration of 1 µg/ml, and Anti-Teclistamab Antibody (36D3), mAb, Mouse (GenScript, A02254) conjugated with Biotin was used as a detection antibody at a concentration of 0.5 µg/ml.

In this ELISA assay, a four-parameter logistic curve fitting program was used to create a standard curve with the R-Square equal to 0.99984. The typical dynamic range of the assay is 1.56-100 ng/mL and its sensitivity of detecting Teclistamab is up to 1.56 ng/ml.

Background

Target Background : Teclistamab, also known as Tecvayli, is a therapeutic monoclonal antibody specifically designed to address relapsed and refractory multiple myeloma. It is a bispecific antibody that effectively targets both the CD3 receptor found on T-cells and the B-cell maturation antigen (BCMA) expressed on malignant multiple myeloma B-lineage cells. Teclistamab is composed of two arms, one targeting BCMA and the other targeting CD3. These arms are connected by two interchain disulfide bonds, enabling the drug to engage CD3-expressing T cells and direct them towards BCMA-expressing cells. This mechanism facilitates T cell-mediated cytotoxicity to combat the targeted cells.

Synonyms : Teclistamab; teclistamab-cqyv; Tecvayli; TECVAYLI

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

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