Rev01
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DATASHEET

MonoRab™ Anti-Ocrelizumab Antibody (15E7), mAb, Rabbit

Cat. No.: A02259

Overview

Specificity	This product is specific for Ocrelizumab.
Host Species	Rabbit
Immunogen	Ocrelizumab
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.

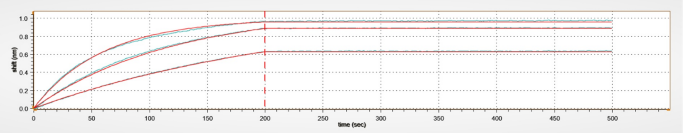
Application	Recommended Usage
Sandwich ELISA	0.5-2 μg/ml
ELISA	0.01-1 μg/ml
Competitive ELISA	1-10 μg/ml

Properties

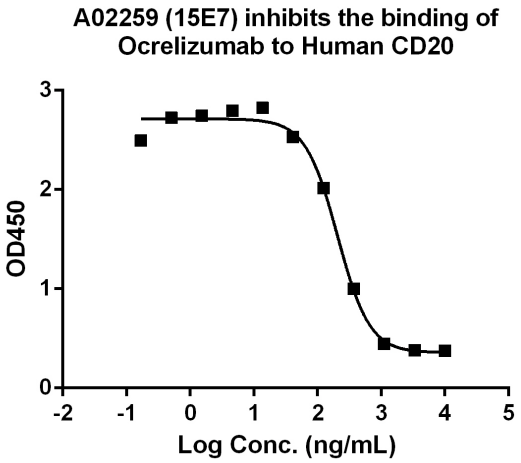
Form	Lyophilized
Storage Buffer	Lyophilized with PBS, pH 7.2, containing 0.02% sodium azide.
Reconstitution	Reconstitute the lyophilized antibody with deionized water (or equivalent) to a final concentration of 0.5 mg/mL.
Storage Instructions	The lyophilized product remains stable for up to 1 year at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

Purification	Protein A affinity column
Isotype	Rabbit IgG, κ
Clonality	Monoclonal
Clone ID	15E7
Note	GenScript can customize this product per customer's request including product size, buffer components, etc.

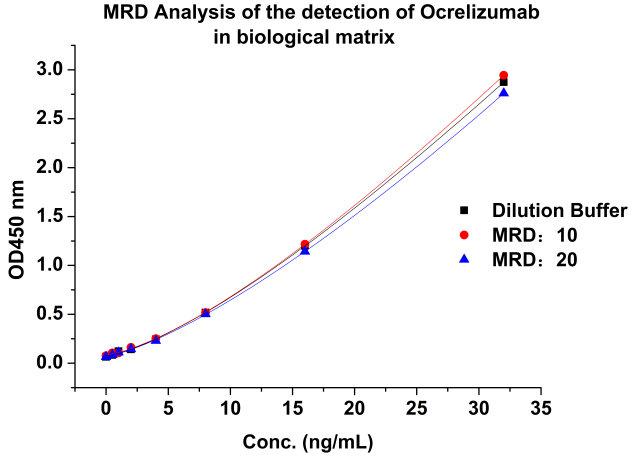
Examples



BLI (Biolayer interferometry) binding affinity measurements of MonoRab™ Anti-Ocrelizumab Antibody (15E7), mAb, Rabbit (GenScript, A02259) to Ocrelizumab.
Ocrelizumab captured on HFC (Anti-Human IgG Fc) Probes can bind MonoRab™ Anti-Ocrelizumab Antibody (15E7), mAb, Rabbit with a dissociation constant (KD) of less than 1 pM.



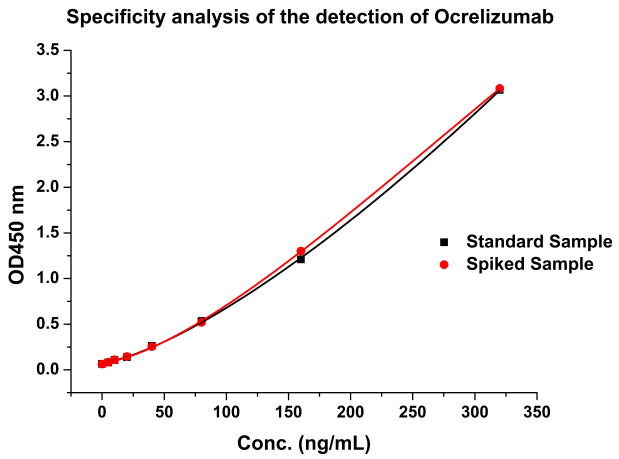
MonoRab™ Anti-Ocrelizumab Antibody (15E7), mAb, Rabbit (GenScript, A02259) inhibits the binding of Ocrelizumab to Human CD20.
Coating antigen: Ocrelizumab, 1 μg/ml.
Human CD20 final concentration: 0.5 μg/ml.
Anti-Ocrelizumab antibody dilutions start from 10 μg/ml.
MonoRab™ Anti-Ocrelizumab Antibody (15E7), mAb, Rabbit (GenScript, A02259) demonstrated significant inhibitory properties with an IC_{50} value of 0.20 μg/ml.



MRD analysis of the detection of Ocrelizumab in biological matrix.

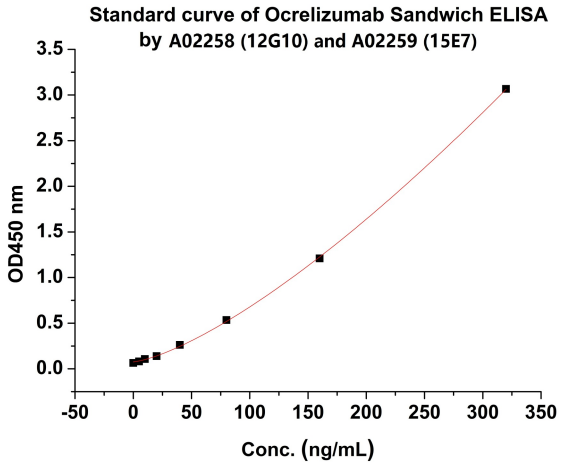
The MRD is the minimum dilution necessary for the detection of Ocrelizumab in biological matrix with least interference. Serum samples from cynomolgus monkey were serially diluted to determine the MRD of this assay, and the test result suggestedthat MRD was as 1:10.
In this ELISA assay, MonoRab™ Anti-Ocrelizumab Antibody (12G10), mAb, Rabbit (GenScript, A02258) was coated at a concentration of 1 μg/ml, and MonoRab™ Anti-Ocrelizumab Antibody (15E7), mAb, Rabbit (GenScript, A02259) conjugated with Biotin was used as a detection antibody at a

concentration of 0.5 μg/ml.

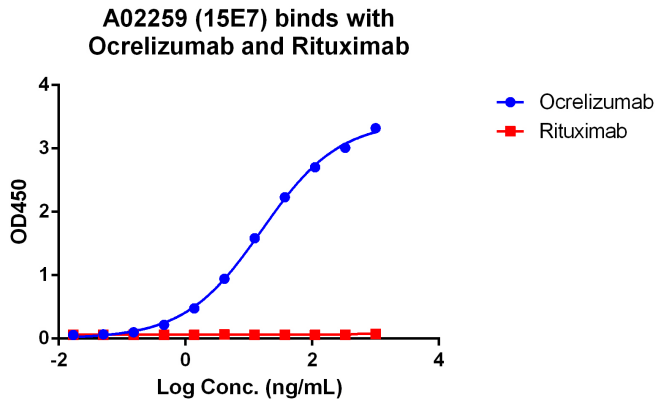


Specificity analysis of the detection of Ocrelizumab.

Ocrelizumab standard samples at 8 concentrations were spiked with 10 μg/mL of human IgG1. The test result demonstrated that the high concentration of human IgG1 did not interfere with the detection of Ocrelizumab.
In this ELISA assay, MonoRab™ Anti-Ocrelizumab Antibody (12G10), mAb, Rabbit (GenScript, A02258) was coated at a concentration of 1 μg/ml, and MonoRab™ Anti-Ocrelizumab Antibody (15E7), mAb, Rabbit (GenScript, A02259) conjugated with Biotin was used as a detection antibody at a concentration of 0.5 μg/ml.



Standard curve of Ocrelizumab sandwich ELISA by A02258 (12G10) and A02259 (15E7).
In this ELISA assay, MonoRab™ Anti-Ocrelizumab Antibody (12G10), mAb, Rabbit (GenScript, A02258) was coated at a concentration of 1 μg/ml, and MonoRab™ Anti-Ocrelizumab Antibody (15E7), mAb, Rabbit (GenScript, A02259) 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 0.99978. The typicaldynamic range of the assay is 5-320 ng/mL and its sensitivity of detecting Ocrelizumab is up to 5 ng/ml.



The binding of MonoRab™ Anti-Ocrelizumab Antibody (15E7), mAb, Rabbit (GenScript, A02259) with Ocrelizumab and Rituximab was tested using ELISA.
The coating antigen used was Ocrelizumab or Rituximab at a concentration of 1 μg/mL. The MonoRab™ Anti-Ocrelizumab Antibody (15E7), mAb, Rabbit (GenScript, A02259) was used at dilutions starting from 0.5 μg/mL. The results demonstrate that the antibody specifically recognizes Ocrelizumab but does not recognize Rituximab

Background

Target Background : Ocrelizumab is a recombinant humanized monoclonal IgG1 antibody that selectively targets B-cells expressing the CD20 antigen. It is indicated for the treatment of primary progressive or relapsing forms of multiple sclerosis (MS). Compared to non-humanized CD20 antibodies like rituximab, ocrelizumab is anticipated to have a lower potential for immunogenicity with repeated infusions. This improved benefit-to-risk profile is beneficial for patients with MS.

Synonyms : Ocrelizumab; OCREVUS; Ocrevus;

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