

Rev05
Update: Jun,14,2023

DATASHEET

MonoRab™ Anti-Nivolumab Antibody (33H4), mAb, Rabbit

Cat. No.: A01987

Overview

Specificity	The antibody is recommended as a capture antibody in a pharmacokinetic (PK) bridging assay with detection antibody GenScript, A01988-40, MonoRab Anti-Nivolumab Antibody (40F11), mAb, Rabbit.
Host Species	Rabbit
Immunogen	Nivolumab
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.

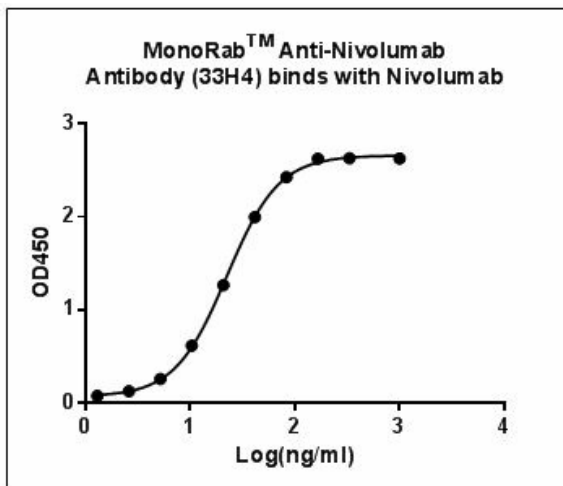
Application	Recommended Usage
ELISA	0.01-0.1 µg/ml

Properties

Form	Lyophilized
Storage Buffer	Lyophilized with PBS, pH 7.4, containing 0.02% sodium azide.
Reconstitution	Reconstitute the lyophilized powder with deionized water (or equivalent) to a final concentration of 0.5 mg/ml.
Storage Instructions	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.

Purification	Protein A affinity column
Isotype	Rabbit IgG
Clonality	Monoclonal
Clone ID	33H4
Note	GenScript can customize this product per customer's request including product size, buffer components, etc.

Examples

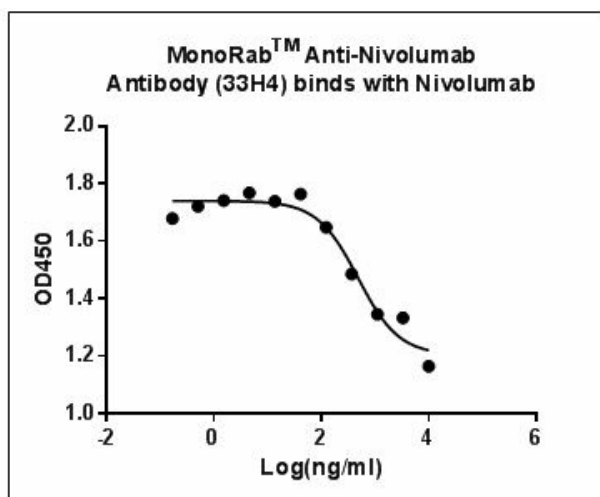


ELISA binding of MonoRab™ Anti-Nivolumab Antibody (33H4) (GenScript, A01987-40) with Nivolumab. While the antibody does not recognize the human IgG Fc fragment (data not shown).

Coating antigen: Nivolumab, 1 µg/ml.

MonoRab™ Anti-Nivolumab Antibody (33H4) (GenScript, A01987-40) dilutions start from 1,000 ng/ml.

EC₅₀= 22.48 ng/ml.

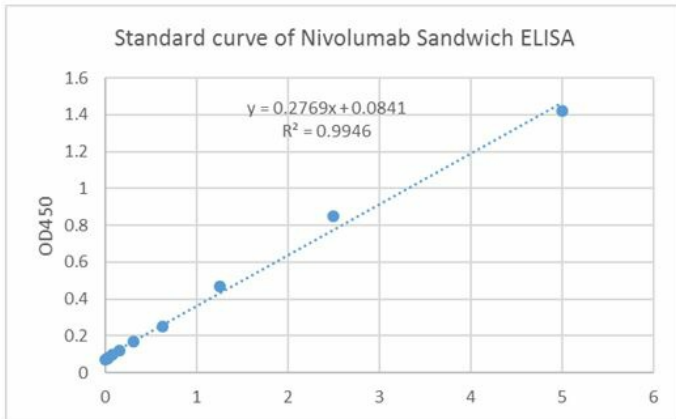


MonoRab™ Anti-Nivolumab Antibody (33H4), mAb, Rabbit (GenScript, A01987-40) blocks Nivolumab binding with Human PD-1 recombinant protein (Z03370, PD-1 Fc Chimera, Human).

Coating antigen: Nivolumab, 1 µg/ml.

PD-1-Fc-biotin final concentration: 10 ng/ml.

MonoRab™ Anti-Nivolumab Antibody (33H4), mAb, Rabbit (GenScript, A01987-40) dilutions start from 10 µg/ml. IC₅₀= 0.48 µg/ml



Standard curve of Nivolumab Sandwich ELISA. The Nivolumab Sandwich ELISA assay is developed by using MonoRab™ Anti-Nivolumab Antibody (33H4), mAb, Rabbit (GenScript, A01987-40) and MonoRab™ Anti-Nivolumab Antibody (40F11) (Genscript, A01988-40) as the capture and detection antibodies, respectively.

In this ELISA assay, MonoRab™ Anti-Nivolumab Antibody (40F11) (Genscript, A01988-40) was labeled with Biotin. GenScript can provide customized conjugation services for this product per the customer's request.

The sensitivity of detecting Nivolumab is up to 78 pg/ml.

Background

Target Background : Nivolumab is a fully human monoclonal IgG4 antibody that is approved by the U.S. Food and Drug Administration for the treatment of bladder cancer. It binds to the programmed cell death protein 1 (PD-1) on the surface of activated T cells. Nivolumab functions as PD-1 inhibitor for targeted immunotherapy. GenScript MonoRab™ Anti-Nivolumab Antibody (33H4), mAb, Rabbit is produced from a hybridoma resulting from the fusion of partner and B-lymphocytes obtained from a rabbit immunized with Nivolumab.

Synonyms : Rabbit monoclonal to Opdivo

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

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