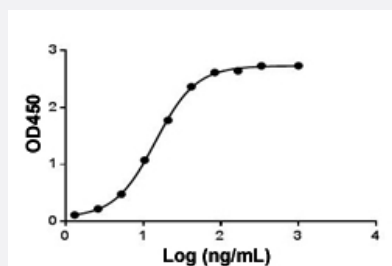


Anti-Nivolumab monoclonal antibody, clone 40F11

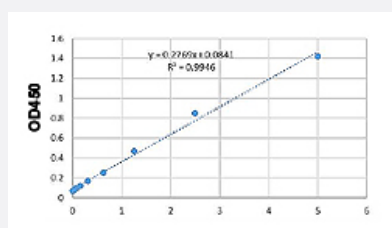
Catalog # MAB23099 Size 40 ug

Applications



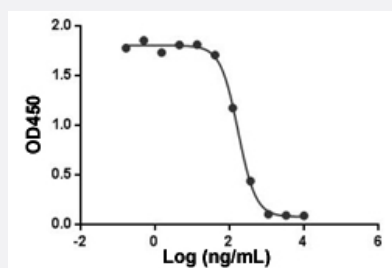
Enzyme-linked Immunoabsorbent Assay

ELISA binding of Anti-Nivolumab monoclonal antibody, clone 40F11 (Cat # MAB23099) with Nivolumab. While the antibody does not recognize the human IgG Fc fragment (data not shown). Coating antigen: Nivolumab, 1 ug/mL. Anti-Nivolumab monoclonal antibody, clone 40F11 (Cat # MAB23099) dilutions start from 1000 ng/mL. $EC_{50} = 14.3$ ng/mL.



Sandwich ELISA

Standard curve of Nivolumab Sandwich ELISA. The Nivolumab Sandwich ELISA assay is developed by using Anti-Nivolumab monoclonal antibody, clone 33H4 (Cat # MAB23098) and Anti-Nivolumab monoclonal antibody, clone 40F11 (Cat # MAB23099) as the capture and detection antibodies, respectively. In this ELISA assay Anti-Nivolumab monoclonal antibody, clone 40F11 (Cat # MAB23099) was labeled with Biotin. The sensitivity of detecting Nivolumab is up to 78 pg/mL.



Blocking

Anti-Nivolumab monoclonal antibody, clone 40F11 (Cat # MAB23099) blocks Nivolumab binding with Human PD-1 recombinant protein (PD-1 Fc Chimera, Human). Coating antigen: Nivolumab, 1 ug/mL. PD-1-Fc-biotin final concentration: 10 ng/mL. Anti-Nivolumab monoclonal antibody, clone 40F11 (Cat # MAB23099) dilutions start from 10 ug/mL. $IC_{50} = 0.17$ ug/mL.

Specification

Product Description

Rabbit monoclonal antibody raised against Nivolumab.
Target gene is PD-1.

Immunogen	Nivolumab.
Host	Rabbit
Specificity	The antibody is recommended as a detection antibody in a pharmacokinetic (PK) bridging assay with capture antibody Anti-Nivolumab monoclonal antibody, clone 33H4 (Cat # MAB23098).
Form	Lyophilized
Preparation Method	This antibody is produced from a hybridoma resulting from the fusion of partner and B-lymphocytes obtained from a rabbit immunized with Nivolumab.
Purification	Protein A purification
Isotype	IgG
Recommend Usage	ELISA (ELISA detection: 0.01-0.1 ug/mL) (Direct/Indirect/Inhibitory ELISA) Sandwich ELISA The optimal working dilution should be determined by the end user.
Inhibitory IC50	0.171 ug/mL
Storage Buffer	Lyophilized from PBS, pH 7.4 (0.02% sodium azide).
Storage Instruction	Store at -20°C on dry atmosphere. The lyophilized product remains stable up to 1 year at -20°C from date of receipt. After reconstitution with deionized water (or equivalent) to a final concentration of 0.5 mg/mL, it can be stored for 2-3 weeks at 2-8°C or for up to 12 months at -20°C or below. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Enzyme-linked Immunoabsorbent Assay

ELISA binding of Anti-Nivolumab monoclonal antibody, clone 40F11 (Cat # MAB23099) with Nivolumab. While the antibody does not recognize the human IgG Fc fragment (data not shown). Coating antigen: Nivolumab, 1 ug/mL. Anti-Nivolumab monoclonal antibody, clone 40F11 (Cat # MAB23099) dilutions start from 1000 ng/mL. EC₅₀ = 14.3 ng/mL.

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Gene Info — PDCD1

Entrez GeneID [5133](#)

Gene Name PDCD1

Gene Alias CD279, PD1, SLEB2, hPD-1, hPD-I

Gene Description programmed cell death 1

Omim ID [152700 600244](#)

Gene Ontology [Hyperlink](#)

Gene Summary This gene encodes a cell surface membrane protein of the immunoglobulin superfamily. This protein is expressed in pro-B-cells and is thought to play a role in their differentiation. In mice, expression of this gene is induced in the thymus when anti-CD3 antibodies are injected and large number of thymocytes undergo apoptosis. Mice deficient for this gene bred on a BALB/c background developed dilated cardiomyopathy and died from congestive heart failure. These studies suggest that this gene product may also be important in T cell function and contribute to the prevention of autoimmune diseases. [provided by RefSeq]

Other Designations -

Pathway

- [Cell adhesion molecules \(CAMs\)](#)
- [T cell receptor signaling pathway](#)

Disease

- [Addison Disease](#)
- [Alveolitis](#)
- [Arthritis](#)

- [Autoimmune Diseases](#)
- [Carcinoma](#)
- [Choriocarcinoma](#)
- [Colitis](#)
- [Crohn Disease](#)
- [Diabetes Mellitus](#)
- [Disease Progression](#)
- [Disease Susceptibility](#)
- [Genetic Predisposition to Disease](#)
- [Graves Disease](#)
- [Hydatidiform Mole](#)
- [Inflammation](#)
- [Kidney Diseases](#)
- [Leukemia](#)
- [Liver Cirrhosis](#)
- [Lupus Erythematosus](#)
- [Lupus Nephritis](#)
- [Mucocutaneous Lymph Node Syndrome](#)
- [Multiple Sclerosis](#)
- [Myocardial Infarction](#)
- [Neovascularization](#)
- [Polyendocrinopathies](#)
- [Spondylitis](#)
- [Uterine Cervical Neoplasms](#)
- [Uveomeningoencephalitic Syndrome](#)
- [Vasculitis](#)

- [Wegener Granulomatosis](#)