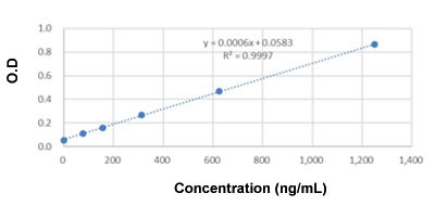
Anti-Pembrolizumab recombinant monoclonal antibody, clone 47E5

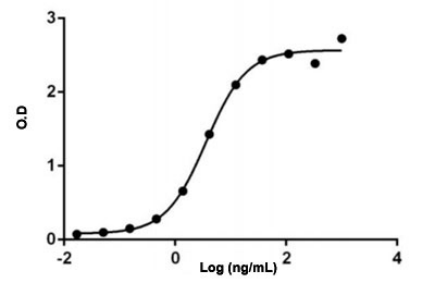
Catalog # RAB09622 Size 40 ug

Applications



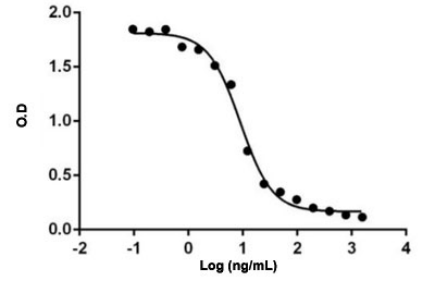
Sandwich ELISA

The Sandwich ELISA assay is developed by using Anti-Pembrolizumab monoclonal antibody, clone 94B9 (Cat # RAB09623) and Anti-Pembrolizumab monoclonal antibody, clone 47E5 (Cat # RAB09622) as the capture and detection antibodies, respectively. In this ELISA assay, Anti-Pembrolizumab monoclonal antibody, clone 47E5 was labeled with Biotin. The sensitivity of detecting Pembrolizumab is up to 78 pg/mL.



Enzyme-linked Immunoabsorbent Assay

ELISA binding of Anti-Pembrolizumab monoclonal antibody, clone 47E5 (Cat # RAB09622) with Pembrolizumab. Coating antigen: Pembrolizumab, 1 ug/mL. Anti-Pembrolizumab monoclonal antibody, clone 47E5 dilutions start from 1000 ng/mL. EC_{50}= 3.618 ng/mL. While the antibody does not recognize the human IgG Fc fragment (data not shown).



Blocking

Anti-Pembrolizumab monoclonal antibody, clone 47E5 (Cat # RAB09622) blocks Pembrolizumab binding with Human PD-1 protein. Coating antigen: PD-1 protein, 0.5 ug/mL Pembrolizumab-biotin final concentration: 20 ng/mL. Anti-Pembrolizumab monoclonal antibody, clone 47E5 (Cat # RAB09622) dilutions start from 1.56 ug/mL. IC_{50}= 9.06 ng/mL.

Specification

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Product Description	Recombinant rabbit monoclonal antibody raised against Pembrolizumab. Target gene is PD-1.
Immunogen	Pembrolizumab.
Host	Rabbit
Specificity	The antibody is recommended was labeled with biotin as a detection antibody in a pharmacokinetic (PK) bridging assay with capture antibody Anti Pembrolizumab recombinant monoclonal antibody, clo ne 94B9 (Cat # RAB09623).
Form	Lyophilized
Preparation Method	This antibody is produced from a hybridoma resulting from the fusion of partner and B-lymphocytes o btained from a rabbit immunized with Pembrolizumab.
Purification	Protein A purification
Isotype	IgG
Recommend Usage	Blocking (1-10 ug/mL) ELISA (0.01-0.1 ug/mL (Direct/Indirect/Inhibitory)) Sandwich ELISA The optimal working dilution should be determined by the end user.
Inhibitory IC50	0.009 ug/mL
Storage Buffer	Lyophilized from PBS, pH 7.4 (0.02% sodium azide).
Storage Instruction	Store at -20°C on dry atmospher. The lyophilized product remains stable up to 1 year at -20°C from d ate of receipt. After reconstitution with deionized water (or equivalent) to a final concentration of 0.5 mg/mL, it can b e 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 shoul d be handled by trained staff only.

Applications

- Sandwich ELISA

  The Sandwich ELISA assay is developed by using Anti-Pembrolizumab monoclonal antibody, clone 94B9 (Cat # RAB09623) and Anti-Pembrolizumab monoclonal antibody, clone 47E5 (Cat # RAB09622) as the capture and detection antibodies, respectively. In this ELISA assay, Anti-Pembrolizumab monoclonal antibody, clone 47E5 was labeled with Biotin. The sensitivity of detecting Pembrolizumab is up to 78 pg/mL.

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Gene Info — PDCD1

Entrez GeneID	5133
Gene Name	PDCD1
Gene Alias	CD279, PD1, SLEB2, hPD-1, hPD-l
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 numbers 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

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- 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

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- Uterine Cervical Neoplasms
- Uveomeningoencephalitic Syndrome
- Vasculitis
- Wegener Granulomatosis

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