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# **Mouse PD-1 Antibody Pair Set**

Catalog No. E-KAB-0310 Applications ELISA

**Synonyms** CD279, PD1, PD-1, SLEB2

## **Kit components & Storage**

Title	Specifications	Storage
Mouse PD-1 Capture Antibody	1 vial, 100 μ g	Store at -20°C for one year.
		Avoid freeze / thaw cycles.
Mouse PD-1 Detection Antibody (Biotin)	1 vial, 50 μL	Store at -20℃ for one year.
		Avoid freeze / thaw cycles.

Note: Centrifuge before opening to ensure complete recovery of vial contents.

#### **Product Information**

Items		Characteristic (E-KAB-0310)		
		Mouse PD-1 Capture Antibody	Mouse PD-1 Detection Antibody	
			(Biotin)	
Immunogen	Immunogen	Recombinant Mouse PD-1 protein	Recombinant Mouse PD-1 protein	
Information	Swissprot	Q02242		
Product details	Reactivity	Mouse	Mouse	
	Host	Rabbit	Rabbit	
	Conjugation	Unconjugated	Biotin	
	Concentration	0.5mg/mL	/	
	Buffer	PBS with 0.04% Proclin 300, 50%	PBS with 0.04% Proclin 300, 1%	
		glycerol, pH 7.4	protective protein, 50% glycerol, pH	
			7.4	
	Purify	Protein A & Antigen Affinity	Protein A & Antigen Affinity	
	Specificity	Detects Mouse PD-1 in ELISAs.		

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### **Applications**

Mouse PD-1 Sandwich ELISA Assav:

	Recommended	Reagent	Images
	Concentration/Dilution		
ELISA	0.5-4μg/mL	Mouse PD-1 Capture Antibody	
Capture			10 20 20 20 20 20 20 20 20 20 20 20 20 20
ELISA Detection	1:1000-1:10000	Mouse PD-1 Detection Antibody (Biotin)	0.01 0.1 1 100 100 Mouse PD-1 concentration(ng/mL)

Note: This standard curve is only for demonstration purposes. A standard curve should be generated for each assay!

#### **Background**

Programmed cell death 1 (PD-1,also known as CD279) is an immunoinhibitory receptor that belongs to the CD28/CTLA-4 subfamily of the Ig superfamily. It is a 288 amino acid (aa) type I transmembrane protein composed of one Ig superfamily domain,a stalk,a transmembrane domain,and an intracellular domain containing an immunoreceptor tyrosine-based inhibitory motif (ITIM) as well as an immunoreceptor tyrosine-based switch motif (ITSM) . PD-1 is expressed during thymic development and is induced in a variety of hematopoietic cells in the periphery by antigen receptor signaling and cytokines . Engagement of PD-1 by its ligands PD-L1 or PD-L2 transduces a signal that inhibits T-cell proliferation,cytokine production,and cytolytic function . It is critical for the regulation of T cell function during immunity and tolerance. Blockade of PD-1 can overcome immune resistance and also has been shown to have antitumor activity . The calculated molecular weight of PD-1 is 32 kDa. It has been reported that PD-1 is heavily glycosylated and migrates with an apparent molecular mass of 47-55 kDa on SDS-PAGE .