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Datasheet for KOA0875

Mouse PD-L1 - B7-H1 ELISA Kit

Overview

Description:	Mouse PD-L1/B7-H1 AccuSignal ELISA Kit - KOA0875
Item No.:	KOA0875
Size:	1 Kit
Applications:	ELISA
Reactivity:	Mouse
Range:	31.2 pg/ml - 2000 pg/ml

Product Details

Background:	Programmed death-ligand 1 (PD-L1), also known as cluster of differentiation 274 (CD274) or B7 homolog 1 (B7-H1), is a protein that in humans is encoded by the CD274 gene. PD-L1 is a 40kDa type 1 transmembrane protein that has been speculated to play a major role in suppressing the immune system during particular events such as pregnancy, tissue allografts, autoimmune disease and other disease states such as hepatitis. Normally the immune system reacts to foreign antigens where there is some accumulation in the lymph nodes or spleen which triggers a proliferation of antigen-specific CD8+ T cell. The formation of PD-1 receptor / PD-L1 or B7.1 receptor /PD-L1 ligand complex transmits an inhibitory signal which reduces the proliferation of these CD8+ T cells at the lymph nodes and supplementary to that PD-1 is also able to control the accumulation of foreign antigen specific T cells in the lymph nodes through apoptosis which is further mediated by a lower regulation of the gene Bcl-2.
Synonyms:	B7 H, B7H, B7 H1, B7-H1, B7H1, CD 274, CD274, PD L1, PD-L1, PDL 1, PDL1
Detection Kit Type:	ELISA Kit
Detection Range:	31.2 pg/ml - 2000 pg/ml
Sensitivity:	<10 pg/ml

Target Details

Gene Name:	CD274
Reactivity:	Mouse
Immunogen:	Expression system for standard: NSO; Immunogen sequence: F19-H239

Purity/Specificity:	Natural and recombinant mouse PD-L1. There is no detectable cross-reactivity with other relevant proteins.
Relevant Links:	• UniProtKB - Q9EP73 • NCBI - NP_068693.1 • GeneID - 60533 • KOA0875 Protocol

Application Details

Tested Applications:	ELISA
Application Note:	Useful in Sandwich ELISA for Quantitative Detection of Antigen. Aliquot 0.1ml per well of the 2000pg/ml,1000pg/ml, 500pg/ml, 250pg/ml, 125pg/ml, 62.5pg/ml, 31.2pg/ml mouse PD-L1 standard solutions into the precoated 96-well plate. Add 0.1ml of the sample diluent buffer into the control well (Zero well). Add 0.1ml of each properly diluted sample of mouse cell culture supernates, serum or plasma(heparin, EDTA) to each empty well. It is recommended that each mouse PD-L1 standard solution and each sample be measured in duplicate.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	31.2 pg/ml-2000 pg/ml
Other:	DOE: 2-8° C - 08/17/2022 -20° C - 02/15/2023

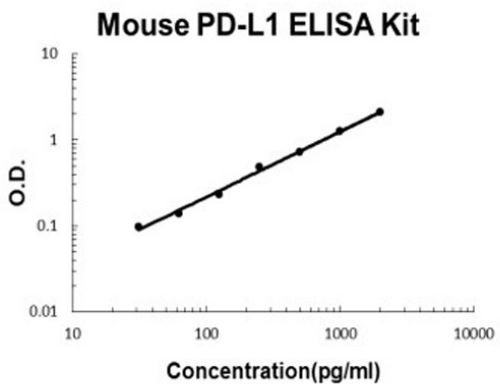
Formulation

Concentration:	1 Kit
Anticoagulant:	Heparin Sodium

Shipping & Handling

Shipping Condition:	Wet Ice
Storage Condition:	Store vials at 4°C prior to opening. Centrifuge product if not completely clear after standing at room temperature. This product is stable for 6 months at 4°C as an undiluted liquid. Dilute only prior to immediate use. For extended storage freeze at -20°C or below for 12 months. Avoid cycles of freezing and thawing.
Expiration:	See kit insert for complete instructions.

Images



ELISA
Mouse PD-L1/B7-H1 ELISA Kit standard curve.

References

- Wang Y et al. Immuno-protective vesicle-crosslinked hydrogel for allogenic transplantation. *Nat Commun.* (2024)

Disclaimer

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