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Datasheet for ABIN1889319 IL1RN ELISA Kit

Image



Overview

Quantity:	96 tests
Target:	IL1RN
Binding Specificity:	AA 27-178
Reactivity:	Mouse
Method Type:	Sandwich ELISA
Detection Range:	62.5-4000 pg/mL
Minimum Detection Limit:	62.5 pg/mL
Application:	ELISA

Product Details

Purpose:	Sandwich High Sensitivity ELISA kit for Quantitative Detection of Mouse IL-1RA/IL1RN
Brand:	PicoKine™
Sample Type:	Cell Culture Supernatant, Serum, Plasma (heparin), Plasma (EDTA)
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Immunogen:	Expression system for standard: E.coli Immunogen sequence: R27-Q178
Specificity:	Expression system for standard: E.coli Immunogen sequence: R27-Q178
Cross-Reactivity (Details):	There is no detectable cross-reactivity with other relevant proteins.

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Product Details

Sensitivity:	<10pg/mL
Material not included:	Microplate reader in standard size. Automated plate washer. Adjustable pipettes and pipette
	tips. Multichannel pipettes are recommended in the condition of large amount of samples in the
	detection. Clean tubes and Eppendorf tubes. Washing buffer (neutral PBS or TBS). Preparation
	of 0.01M TBS: Add 1.2g Tris, 8.5g Nacl

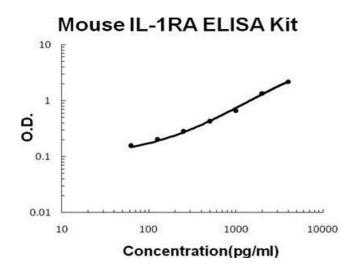
Target Details

Target:	IL1RN
Alternative Name:	IL1RN (IL1RN Products)
Background:	Protein Function: Inhibits the activity of interleukin-1 by binding to receptor IL1R1 and
	preventing its association with the coreceptor IL1RAP for signaling. Has no interleukin-1 like
	activity.
	Background: The interleukin-1 receptor antagonist(IL-1RA) is a protein that in humans is
	encoded by the IL1RN gene. The human IL1RN gene was localized to the long arm of
	chromosome 2 at band 2q14.2 by fluorescence in situ hybridization. IL-1RA is a member of the
	interleukin 1 cytokine family. This protein inhibits the activities of interleukin 1, alpha(IL1A) and
	interleukin 1, beta(IL1B), and modulates a variety of interleukin 1 related immune and
	inflammatory responses.
	Synonyms: Interleukin-1 receptor antagonist protein,IL-1RN,IL-1ra,IRAP,IL1 inhibitor,Il1rn,II-1ra,
	Full Gene Name: Interleukin-1 receptor antagonist protein
	Cellular Localisation: Isoform 1: Secreted.
Gene ID:	16181
UniProt:	P25085
Pathways:	NF-kappaB Signaling, Hormone Transport, Cancer Immune Checkpoints
Application Details	

Application Notes:	Before using Kit, spin tubes and bring down all components to bottom of tube. Duplicate well
	assay was recommended for both standard and sample testing.
Plate:	Pre-coated
Protocol:	mouse IL-1RA ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent
	assay technology. A monoclonal antibody from rat specific for IL-1RA has been precoated onto
	96-well plates. Standards(E.coli, R27-Q178) and test samples are added to the wells, a

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	biotinylated detection polyclonal antibody from goat specific for IL-1RA is added subsequently and then followed by washing with PBS or TBS buffer. Avidin-Biotin-Peroxidase Complex was added and unbound conjugates were washed away with PBS or TBS buffer. HRP substrate TMB was used to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that changed into yellow after adding acidic stop solution. The density of yellow is proportional to the mouse IL-1RA amount of sample captured in plate.
Assay Procedure:	Aliquot 0.1 mL per well of the 4000pg/mL, 2000pg/mL,1000pg/mL, 500pg/mL, 250pg/mL, 125pg/mL, 62.5pg/mL mouse IL-1RA standard solutions into the precoated 96-well plate. Add 0.1 mL of the sample diluent buffer into the control well (Zero well). Add 0.1 mL of each properly diluted sample of mouse cell culture supernates, serum or plasma(heparin, EDTA) to each empty well. See "Sample Dilution Guideline" above for details. It is recommended that each mouse IL-1RA standard solution and each sample be measured in duplicate.
Assay Precision:	 Sample 1: n=16, Mean(pg/ml): 476, Standard deviation: 30, CV(%): 6.3 Sample 2: n=16, Mean(pg/ml): 1326, Standard deviation: 72.93, CV(%): 5.5 Sample 3: n=16, Mean(pg/ml): 2760, Standard deviation: 129.72, CV(%): 4.7, Sample 1: n=24, Mean(pg/ml): 595, Standard deviation: 46.41, CV(%): 7.8 Sample 2: n=24, Mean(pg/ml): 1533, Standard deviation: 95, CV(%): 6.2 Sample 3: n=24, Mean(pg/ml): 3185, Standard deviation: 172, CV(%): 5.4
Restrictions: Handling	For Research Use only
Handling Advice:	Avoid multiple freeze-thaw cycles.
Storage:	-20 °C,4 °C
Storage Comment:	Store at 4°C for 6 months, at -20°C for 12 months. Avoid multiple freeze-thaw cycles
Expiry Date:	12 months



ELISA

Image 1. Mouse IL-1RA/IL1RN PicoKine ELISA Kit standard curve

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