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Publication



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Overview

Quantity:	96 tests
Target:	INHBA
Binding Specificity:	AA 311-426
Reactivity:	Mouse
Method Type:	Sandwich ELISA
Detection Range:	15.6-1000 pg/mL
Minimum Detection Limit:	15.6 pg/mL
Application:	ELISA

Product Details

Purpose:	Sandwich High Sensitivity ELISA kit for Quantitative Detection of Mouse Activin A
Brand:	PicoKine™
Sample Type:	Cell Culture Supernatant, Serum, Plasma (heparin), Plasma (EDTA), Saliva
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Immunogen:	Expression system for standard: CHO
	Immunogen sequence: G311-S426
Specificity:	Expression system for standard: CHO
	Immunogen sequence: G311-S426
Cross-Reactivity (Details):	There is no detectable cross-reactivity with other relevant proteins.

Product Details

Predicted Reactivity:

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

Bovine, Monkey, Rabbit

	of 0.01M TBS: Add 1.2g Tris, 8.5g Nacl
Target Details	
- Target Details	
Target:	INHBA
Alternative Name:	INHBA (INHBA Products)
Background:	Protein Function: Inhibins and activins inhibit and activate, respectively, the secretion of
	follitropin by the pituitary gland. Inhibins/activins are involved in regulating a number of diverse
	functions such as hypothalamic and pituitary hormone secretion, gonadal hormone secretion,
	germ cell development and maturation, erythroid differentiation, insulin secretion, nerve cell
	survival, embryonic axial development or bone growth, depending on their subunit composition.
	Inhibins appear to oppose the functions of activins.
	Background: Activin A is a homodimer of 14 kDa beta-A. Activin A, a cytokine member of the
	transforming growth factor-beta superfamily, is expressed locally by the mesenchymal
	component of the hemopoietic microenvironment. Its expression is regulated on the mRNA
	level by different cytokines, and the biological activity of the protein is tightly controlled by
	several inhibitory molecules. Inhibins and activins are members of the transforming growth
	factor beta superfamily and are known to modulate the growth and differentiation of several
	cell types. Inhibins and activins inhibit and activate, respectively, the secretion of follitropin by
	the pituitary gland. Inhibins/activins are involved in regulating a number of diverse functions
	such as hypothalamic and pituitary hormone secretion, gonadal hormone secretion, germ cell
	development and maturation, erythroid differentiation, insulin secretion, nerve cell survival,
	embryonic axial development or bone growth, depending on their subunit composition. Inhibins
	appear to oppose the functions of activins. The standard product used in this kit is recombinant
	Activin A, which is composed of two single chains of 116 amino acids with the molecular mass
	of 26KDa.
	Synonyms: Inhibin beta A chain,Activin beta-A chain,Inhba,
	Full Gene Name: Inhibin beta A chain
	Cellular Localisation: Secreted.

Target Details 16323 Gene ID: UniProt: Q04998 Pathways: Hormone Transport, Peptide Hormone Metabolism, Hormone Activity, Negative Regulation of Hormone Secretion, Autophagy **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. Comment: Tissue Specificity: Uterus, ovary and liver. Plate: Pre-coated Protocol: mouse Activin A ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from rat specific for Activin A has been precoated onto 96-well plates. Standards(CHO, G311-S426) and test samples are added to the wells, a biotinylated detection monoclonal antibody from mouse specific for Activin A 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 Activin A amount of sample captured in plate. Aliquot 0.1 mL per well of the 1000pg/mL, 500pg/mL, 250pg/mL, 125pg/mL, 62.5pg/mL, Assay Procedure: 31.2pg/mL, 15.6pg/mL mouse Activin A 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, plasma(heparin, EDTA) or saliva to each empty well. See "Sample Dilution Guideline" above for details. It is recommended that each mouse Activin A standard solution and each sample be measured in duplicate. Assay Precision: • Sample 1: n=16, Mean(pg/ml): 95, Standard deviation: 4.8, CV(%): 5 • Sample 2: n=16, Mean(pg/ml): 289, Standard deviation: 15.0, CV(%): 5.2 Sample 3: n=16, Mean(pg/ml): 453, Standard deviation: 23.6, CV(%): 5.2, • Sample 1: n=24, Mean(pg/ml): 98, Standard deviation: 7.8, CV(%): 8

Restrictions: For Research Use only

Sample 2: n=24, Mean(pg/ml): 301, Standard deviation: 18.7, CV(%): 6.2 Sample 3: n=24, Mean(pg/ml): 495, Standard deviation: 24.3, CV(%): 4.9

Handling

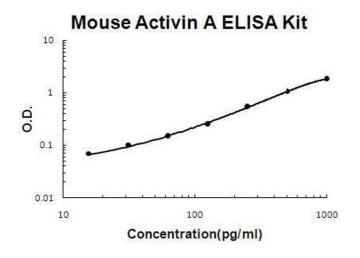
Handling Advice:	Avoid multiple freeze-thaw cycles.
Storage:	-20 °C,4 °C
Storage Comment:	Store at 4°C for 6 months, at -20°C for 12 months. Avoid multiple freeze-thaw cycles
Expiry Date:	12 months

Publications

Product cited in:

Zhang, Ju, Nie, Song, Xu, Gao: "Adenovirus-mediated knockdown of activin A receptor type 2A attenuates immune-induced hepatic fibrosis in mice and inhibits interleukin-17-induced activation of primary hepatic stellate cells." in: **International journal of molecular medicine**, Vol. 42, Issue 1, pp. 279-289, (2018) (PubMed).

Images



ELISA

Image 1. Mouse Activin A PicoKine ELISA Kit standard curve