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Datasheet for ABIN1672816 **MME ELISA Kit**

Image



Overview

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Quantity:	96 tests			
Target:	MME			
Binding Specificity:	AA 52-750			
Reactivity:	Mouse			
Method Type:	Sandwich ELISA			
Detection Range:	93.7-6000 pg/mL			
Minimum Detection Limit:	93.7 pg/mL			
Application:	ELISA			

Product Details

Purpose:	Sandwich High Sensitivity ELISA kit for Quantitative Detection of Mouse Neprilysin/CD1				
Brand:	PicoKine™				
Sample Type:	Cell Culture Supernatant, Serum, Plasma (heparin), Plasma (EDTA)				
Analytical Method:	Quantitative				
Detection Method:	Colorimetric				
Immunogen:	Expression system for standard: sf21				
	Immunogen sequence: Y52-W750				
Specificity:	Expression system for standard: sf21				
	Immunogen sequence: Y52-W750				
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:	MME		
Alternative Name:	MME (MME Products)		
Target Type:	Chemical		
Background:	Protein Function: Thermolysin-like specificity, but is almost confined on acting on polypeptides		
	of up to 30 amino acids. Biologically important in the destruction of opioid peptides such as		
	Met- and Leu-enkephalins by cleavage of a Gly-Phe bond. Able to cleave angiotensin-1,		
	angiotensin-2 and angiotensin 1-9. Involved in the degradation of atrial natriuretic factor (ANF)		
	(By similarity). Displays UV-inducible elastase activity toward skin preelastic and elastic fibers		
	(PubMed:20876573)		
	Background: Neprilysin, also known as membrane metallo-endopeptidase, neutral		
	endopeptidase(NEP), CD10, and common acute lymphoblastic leukemia antigen(CALLA), is a		
	zinc-dependent metalloprotease enzyme that degrades a number of small secreted peptides,		
	most notably theamyloid beta peptide whose abnormal misfolding and aggregation in neural		
	tissue has been implicated as a cause of Alzheimer's disease, this gene is localized to human		
	chromosome 3 by study of somatic cell hybrids and regionalized the location to 3q21-q27 by in		
	situ hybridization. By cDNA transfection analysis, Neprilysin is confirmed as a functional neutra		
	endopeptidase of the type that has previously been called enkephalinase. Neprilysin has also		
	been called atriopeptidase. Atriopeptidase specifically degrades atrial natriuretic factor. A		
	specific enzyme inhibitor was developed and reported that it had effects similar to those of lov		
	dose ANF infusion. These effects include diuresis, natriuresis, vasodilatation, and suppression		
	of the renin-angiotensin-aldosterone system.		
	Synonyms: Neprilysin,3.4.24.11 ,Atriopeptidase,Enkephalinase,Neutral endopeptidase		
	24.11,NEP,Neutral endopeptidase,Skin fibroblast elastase,SFE,CD10,Mme,		
	Full Gene Name: Neprilysin		
	Cellular Localisation: Cell membrane, Single-pass type II membrane protein.		
Gene ID:	17380		

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Target Details	
UniProt:	Q61391
Pathways:	RTK Signaling, Peptide Hormone Metabolism, Regulation of Systemic Arterial Blood Pressure by Hormones, Smooth Muscle Cell Migration
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 CD10 ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from rat specific for CD10 has been precoated onto 96-well plates. Standards(sf21,Y52-W750) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for CD10 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

 Assay Procedure:
 Aliquot 0.1 mL per well of the 6000pg/mL, 3000pg/mL, 1500pg/mL, 750pg/mL, 375pg/mL, 187.5pg/mL, 93.7pg/m mouse CD10 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 CD10 standard solution and each sample be measured in duplicate.

proportional to the mouse CD10 amount of sample captured in plate.

• Sample 1: n=16, Mean(ng/ml): 0.59, Standard deviation: 0.037, CV(%): 6.3

• Sample 2: n=16, Mean(ng/ml): 1.25, Standard deviation: 0.071, CV(%): 5.7

• Sample 3: n=16, Mean(ng/ml): 3.79, Standard deviation: 0.197, CV(%): 5.2,

Sample 1: n=24, Mean(ng/ml): 0.53, Standard deviation: 0.046, CV(%): 8.7

• Sample 2: n=24, Mean(ng/ml): 1.13, Standard deviation: 0.094, CV(%): 8.3

Sample 3: n=24, Mean(ng/ml): 3.85, Standard deviation: 0.277, CV(%): 7.2

Restrictions:

Assay Precision:

For Research Use only

Handling

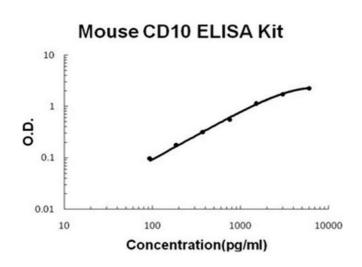
Handling Advice:

Avoid multiple freeze-thaw cycles.

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Handling	
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

Images



ELISA						
Image	1.	Mouse	Neprilysin/CD10	PicoKine	ELISA	Kit
standard curve						