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# Datasheet for ABIN1889325 MME ELISA Kit

Image



#### Overview

Quantity:	96 tests	
Target:	MME	
Binding Specificity:	AA 52-750	
Reactivity:	Human	
Method Type:	Sandwich ELISA	
Detection Range:	125-8000 pg/mL	
Minimum Detection Limit:	125 pg/mL	
Application:	ELISA	

#### Product Details

Purpose:	Sandwich High Sensitivity ELISA kit for Quantitative Detection of Human CD10/Neprilysin		
Brand:	PicoKine™		
Sample Type:	Cell Culture Supernatant, Serum, Plasma (heparin), Plasma (EDTA)		
Analytical Method:	Quantitative		
Detection Method:	Colorimetric		
Immunogen:	Expression system for standard: CHO Immunogen sequence: Y52-W750		
Specificity:	Expression system for standard: CHO		
	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 (PubMed:15283675, PubMed:8168535). Biologically important in the
	destruction of opioid peptides such as Met- and Leu-enkephalins by cleavage of a Gly-Phe bond
	(PubMed:17101991). Able to cleave angiotensin-1, angiotensin-2 and angiotensin 1-9
	(PubMed:15283675). Involved in the degradation of atrial natriuretic factor (ANF)
	(PubMed:2531377, PubMed:2972276). Displays UV-inducible elastase activity toward skin
	preelastic and elastic fibers (PubMed:20876573)
	Background: CD10, also known as membrane metallo-endopeptidase, neutral
	endopeptidase(NEP), Neprilysin, or common acute lymphoblastic leukemia antigen(CALLA), is
	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 ir
	situ hybridization. By cDNA transfection analysis, CD10 is confirmed as a functional neutral
	endopeptidase of the type that has previously been called enkephalinase. CD10 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 low-dose
	ANF infusion. These effects include diuresis, natriuresis, vasodilatation, and suppression of the
	renin-angiotensin-aldosterone system.
	Synonyms: Neprilysin,3.4.24.11 ,Atriopeptidase,Common acute lymphocytic leukemia
	antigen,CALLA,Enkephalinase,Neutral endopeptidase 24.11,NEP,Neutral endopeptidase,Skin
	fibroblast elastase,SFE,CD10,MME,EPN,
	Full Gene Name: Neprilysin
	Cellular Localisation: Cell membrane, Single-pass type II membrane protein.

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Target D	etails
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Gene ID:	4311
UniProt:	P08473
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.	
Comment: Sequence similarities: Belongs to the peptidase M13 family.		
Plate:	Pre-coated	
Protocol:	human CD10 ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent	
	assay technology. A monoclonal antibody from mouse specific for CD10 has been precoated	
	onto 96-well plates. Standards(CHO, 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	
	blue color product that changed into yellow after adding acidic stop solution. The density of	
	yellow is proportional to the human CD10 amount of sample captured in plate.	
Assay Procedure:	Aliquot 0.1 mL per well of the 8000pg/mL, 4000pg/mL, 2000pg/mL, 1000pg/mL, 500pg/mL,	
	250pg/mL, 125pg/mL human 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 human cell culture supernates, serum or plasma(heparin, EDTA) to	
	each empty well. See "Sample Dilution Guideline" above for details. It is recommended that	
	each human CD10 standard solution and each sample be measured in duplicate.	
Assay Precision:	<ul> <li>Sample 1: n=16, Mean(pg/ml): 1265, Standard deviation: 48.07, CV(%): 3.8</li> </ul>	
	<ul> <li>Sample 2: n=16, Mean(pg/ml): 3210, Standard deviation: 179.8, CV(%): 5.6</li> </ul>	
	<ul> <li>Sample 3: n=16, Mean(pg/ml): 6840, Standard deviation: 321.5, CV(%): 4.7,</li> </ul>	
	<ul> <li>Sample 1: n=24, Mean(pg/ml): 1526, Standard deviation: 83.93, CV(%): 5.5</li> </ul>	
	<ul> <li>Sample 2: n=24, Mean(pg/ml): 2761, Standard deviation: 201, CV(%): 7.3</li> </ul>	
	• Sample 3: n=24, Mean(pg/ml): 6397, Standard deviation: 369.6, CV(%): 6.2	
Restrictions <sup>.</sup>	For Research Lise only	

Restrictions:

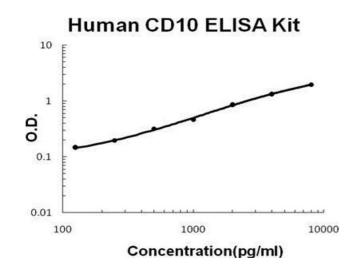
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Handling Advice:	Avoid multiple freeze-thaw cycles.		
Storage:	-20 °C,4 °C		
Storage Comment:	Store at 4°C for 6 months, at -20°C for 12 months. Avoid multiple freeze-thaw cycles		
Expiry Date:	12 months		

Images



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**Image 1.** Human CD10/Neprilysin PicoKine ELISA Kit standard curve