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Datasheet for ABIN1672834 FURIN ELISA Kit

Image



Overview

Quantity:	96 tests
Target:	FURIN
Binding Specificity:	AA 108-715
Reactivity:	Human
Method Type:	Sandwich ELISA
Detection Range:	312-20000 pg/mL
Minimum Detection Limit:	312 pg/mL
Application:	ELISA

Product Details

Purpose:	Sandwich High Sensitivity ELISA kit for Quantitative Detection of Human Furin	
Brand:	PicoKine™	
Sample Type:	Cell Culture Supernatant, Tissue Homogenate, Cell Lysate	
Analytical Method:	Quantitative	
Detection Method:	Colorimetric	
Immunogen:	Expression system for standard: NSO Immunogen sequence: D108-E715	
Specificity:	Expression system for standard: NSO Immunogen sequence: D108-E715	
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:	FURIN FURIN (FURIN Products)	
Alternative Name:		
Background:	Protein Function: Furin is likely to represent the ubiquitous endoprotease activity within	
	constitutive secretory pathways and capable of cleavage at the $RX(K/R)R$ consensus motif	
	Background: Furin(Fur), also known as PACE, is a protein that in humans is encoded by the	
	FURIN gene. The protein encoded by this gene is an enzyme which belongs to the subtilisin-lik	
	proprotein convertase family. The FUR gene is located approximately 1 kb upstream of the FE	
	gene on chromosome 15q25-q26. This gene is thought to play a role in tumor progression.	
	Furin is one of the proteases responsible for the proteolytic cleavage of HIV envelope	
	polyprotein precursor gp160 to gp120 and gp41 prior to viral assembly. Furin is enriched in the	
	Golgi apparatus, where it functions to cleave other proteins into their mature/active forms.	
	Expression of furin in T-cells is required for maintenance of peripheral immune tolerance	
	Synonyms: Furin,3.4.21.75,Dibasic-processing enzyme,Paired basic amino acid residue-	
	cleaving enzyme,PACE,FURIN,FUR, PACE, PCSK3,	
	Full Gene Name: Furin	
	Cellular Localisation: Golgi apparatus, trans-Golgi network membrane, Single-pass type I	
	membrane protein. Cell membrane, Single-pass type I membrane protein. Shuttles between th	
	trans-Golgi network and the cell surface. Propeptide cleavage is a prerequisite for exit of furin	
	molecules out of the endoplasmic reticulum (ER). A second cleavage within the propeptide	
	occurs in the trans Golgi network (TGN), followed by the release of the propeptide and the	
	activation of furin.	
Gene ID:	5045	
JniProt:	P09958	
Pathways:	Notch Signaling, Neurotrophin Signaling Pathway	

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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 S8 family. Furin subfamily.	
	Tissue Specificity: Seems to be expressed ubiquitously.	
Plate:	Pre-coated	
Protocol:	human Furin ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay	
	technology. A monoclonal antibody from mouse specific for Furin has been precoated onto 96-	
	well plates. Standards(NSO, D108-E715) and test samples are added to the wells, a biotinylated	
	detection polyclonal antibody from goat specific for Furin 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 human Furin amount of sample captured in plate.	
Assay Procedure:	Aliquot 0.1 mL per well of the 20000pg/mL, 10000pg/mL, 5000pg/mL, 2500pg/mL,	
	1250pg/mL, 625pg/mL, 312pg/mL human Furin 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, tissue homogenates or cell	
	lysates to each empty well. See "Sample Dilution Guideline" above for details. It is	
	recommended that each human Furin standard solution and each sample be measured in	
	duplicate.	
Assay Precision:	 Sample 1: n=16, Mean(ng/ml): 1.9, Standard deviation: 0.091, CV(%): 4.8 	
	• Sample 2: n=16, Mean(ng/ml): 8.8, Standard deviation: 0.493, CV(%): 5.6	
	 Sample 3: n=16, Mean(ng/ml): 15.7, Standard deviation: 0.942, CV(%): 6, Sample 1: n=24, Mean(ng/ml): 2.2, Standard deviation: 0.122, CV(%): 5.2 	
	 Sample 1: n=24, Mean(ng/ml): 2.3, Standard deviation: 0.122, CV(%): 5.3 Sample 2: n=24, Mean(ng/ml): 9.2, Standard deviation: 0.589, CV(%): 6.4 	
	 Sample 3: n=24, Mean(ng/ml): 17.4, Standard deviation: 1.27, CV(%): 7.3 	
Restrictions:	For Research Use only	
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	

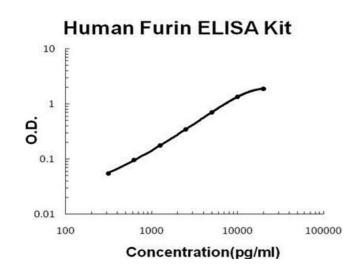
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Expiry Date:

12 months

Images



ELISA

Image 1. Human Furin PicoKine ELISA Kit standard curve

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