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Datasheet for ABIN1889308 N-Cadherin ELISA Kit

Image



Overview

Quantity:	96 tests
Target:	N-Cadherin (CDH2)
Binding Specificity:	AA 160-724
Reactivity:	Human
Method Type:	Sandwich ELISA
Detection Range:	0.78-50 ng/mL
Minimum Detection Limit:	0.78 ng/mL
Application:	ELISA

Product Details

Purpose:	Sandwich High Sensitivity ELISA kit for Quantitative Detection of Human Cadherin-2/N-Cadherin
Brand:	PicoKine™
Sample Type:	Cell Culture Supernatant, Serum, Plasma (heparin), Plasma (EDTA)
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Immunogen:	Expression system for standard: NSO
	Immunogen sequence: D160-A724
Specificity:	Expression system for standard: NSO
	Immunogen sequence: D160-A724
Cross-Reactivity (Details):	There is no detectable cross-reactivity with other relevant proteins.

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Product Details

Sensitivity:	<20pg/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

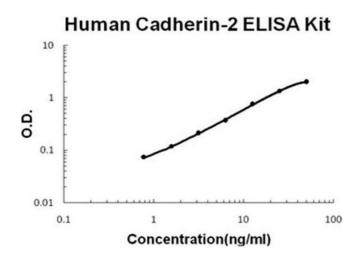
Target Details

Target:	N-Cadherin (CDH2)
Alternative Name:	CDH2 (CDH2 Products)
Background:	Protein Function: Cadherins are calcium-dependent cell adhesion proteins. They preferentially
	interact with themselves in a homophilic manner in connecting cells, cadherins may thus
	contribute to the sorting of heterogeneous cell types. Acts as a regulator of neural stem cells
	quiescence by mediating anchorage of neural stem cells to ependymocytes in the adult
	subependymal zone: upon cleavage by MMP24, CDH2-mediated anchorage is affected, leading
	to modulate neural stem cell quiescence. CDH2 may be involved in neuronal recognition
	mechanism. In hippocampal neurons, may regulate dendritic spine density (By similarity)
	Background: Cadherin-2(CDH2), also known as neural cadherin(NCAD), is a protein that in
	humans is encoded by the CDH2 gene. It is a classical cadherin from the cadherin superfamily
	This gene is mapped to 18q12.1. Cadherin-2 is expressed in the brain, skeletal and cardiac
	muscle. Cadherin-2 is commonly found in cancer cells and provides a mechanism for
	transendothelial migration. It is a calcium dependent cell-cell adhesion glycoprotein comprising
	five extracellular cadherin repeats, a transmembrane region and a highly conserved
	cytoplasmic tail. The protein functions during gastrulation and is required for establishment of
	left-right asymmetry. At certain central nervous system synapses, presynaptic to postsynaptic
	adhesion is mediated at least in part by this gene product.
	Synonyms: Cadherin-2,CDw325,Neural cadherin,N-cadherin,CD325,CDH2,CDHN, NCAD,
	Full Gene Name: Cadherin-2
	Cellular Localisation: Cell membrane, Single-pass type I membrane protein.
Gene ID:	1000
UniProt:	P19022
Pathways:	Regulation of Muscle Cell Differentiation, Cell-Cell Junction Organization, Synaptic Membrane

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assay was recommended for both standard and sample testing.Plate:Pre-coatedProtocol:human Cadherin-2 ELISA Kit was based on standard sandwich enzyme-linked immune-so assay technology. A monoclonal antibody from mouse specific for Cadherin-2 has been precoated onto 96-well plates. Standards(NSO, D160-A724) and test samples are added t wells, a biotinylated detection polyclonal antibody from goat specific for Cadherin-2 is ad subsequently and then followed by washing with PBS or TBS buffer. Avidin-Biotin-Peroxic Complex was added and unbound conjugates were washed away with PBS or TBS buffer substrate TMB was used to visualize HRP enzymatic reaction. TMB was catalyzed by HR produce a blue color product that changed into yellow after adding acidic stop solution. T density of yellow is proportional to the human Cadherin-2 amount of sample captured in 1.56 ng/mL, 0.78 ng/mL human Cadherin-2 standard solutions into the precoated 96-well Add 0.1 mL of the sample diluent buffer into the control well (Zero well). Add 0.1 mL of ea properly diluted sample of human cell culture supernates, serum or plasma(heparin, EDT,	Application Details	
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properly diluted sample of human cell culture supernates, serum or plasma(heparin, EDT, each empty well. See "Sample Dilution Guideline" above for details. We recommend that a human Cadherin-2 standard solution and each sample is measured in duplicate.Assay Precision:• Sample 1: n=16, Mean(ng/ml): 9.6, Standard deviation: 0.365, CV(%): 3.8 • Sample 2: n=16, Mean(ng/ml): 22.4, Standard deviation: 0.963, CV(%): 4.3 • Sample 3: n=16, Mean(ng/ml): 38.2, Standard deviation: 1.986, CV(%): 5.2, • Sample 1: n=24, Mean(ng/ml): 12.5, Standard deviation: 0.675, CV(%): 5.4 • Sample 2: n=24, Mean(ng/ml): 26.4, Standard deviation: 1.61, CV(%): 6.1 • Sample 3: n=24, Mean(ng/ml): 40.7, Standard deviation: 2.768, CV(%): 6.8Restrictions:For Research Use onlyHandlingAvoid multiple freeze-thaw cycles.Storage:-20 °C,4 °CStorage Comment:Storage Comment:		1.56 ng/mL, 0.78 ng/mL human Cadherin-2 standard solutions into the precoated 96-well plate.
each empty well. See "Sample Dilution Guideline" above for details. We recommend that end uman Cadherin-2 standard solution and each sample is measured in duplicate. Assay Precision: • Sample 1: n=16, Mean(ng/ml): 9.6, Standard deviation: 0.365, CV(%): 3.8 • Sample 2: n=16, Mean(ng/ml): 22.4, Standard deviation: 0.963, CV(%): 4.3 • Sample 3: n=16, Mean(ng/ml): 38.2, Standard deviation: 0.963, CV(%): 5.2, • Sample 1: n=24, Mean(ng/ml): 12.5, Standard deviation: 0.675, CV(%): 5.4 • Sample 2: n=24, Mean(ng/ml): 26.4, Standard deviation: 0.675, CV(%): 6.1 • Sample 3: n=24, Mean(ng/ml): 40.7, Standard deviation: 2.768, CV(%): 6.8 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		Add 0.1 mL of the sample diluent buffer into the control well (Zero well). Add 0.1 mL of each
human Cadherin-2 standard solution and each sample is measured in duplicate.Assay Precision:• Sample 1: n=16, Mean(ng/ml): 9.6, Standard deviation: 0.365, CV(%): 3.8 • Sample 2: n=16, Mean(ng/ml): 22.4, Standard deviation: 0.963, CV(%): 4.3 • Sample 3: n=16, Mean(ng/ml): 38.2, Standard deviation: 1.986, CV(%): 5.2, • Sample 1: n=24, Mean(ng/ml): 12.5, Standard deviation: 0.675, CV(%): 5.4 • Sample 2: n=24, Mean(ng/ml): 26.4, Standard deviation: 1.61, CV(%): 6.1 • Sample 3: n=24, Mean(ng/ml): 40.7, Standard deviation: 2.768, CV(%): 6.8Restrictions:For Research Use onlyHandlingHandling Advice:Avoid multiple freeze-thaw cycles.Storage:-20 °C,4 °CStorage Comment:Store at 4°C for 6 months, at -20°C for 12 months. Avoid multiple freeze-thaw cycles		properly diluted sample of human cell culture supernates, serum or plasma(heparin, EDTA) to
human Cadherin-2 standard solution and each sample is measured in duplicate.Assay Precision:• Sample 1: n=16, Mean(ng/ml): 9.6, Standard deviation: 0.365, CV(%): 3.8 • Sample 2: n=16, Mean(ng/ml): 22.4, Standard deviation: 0.963, CV(%): 4.3 • Sample 3: n=16, Mean(ng/ml): 38.2, Standard deviation: 1.986, CV(%): 5.2, • Sample 1: n=24, Mean(ng/ml): 12.5, Standard deviation: 0.675, CV(%): 5.4 • Sample 2: n=24, Mean(ng/ml): 26.4, Standard deviation: 1.61, CV(%): 6.1 • Sample 3: n=24, Mean(ng/ml): 40.7, Standard deviation: 2.768, CV(%): 6.8Restrictions:For Research Use onlyHandlingHandling Advice:Avoid multiple freeze-thaw cycles.Storage:-20 °C,4 °CStorage Comment:Store at 4°C for 6 months, at -20°C for 12 months. Avoid multiple freeze-thaw cycles		each empty well. See "Sample Dilution Guideline" above for details. We recommend that each
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	Storage:	-20 °C,4 °C
Expiry Date: 12 months	Storage Comment:	Store at 4°C for 6 months, at -20°C for 12 months. Avoid multiple freeze-thaw cycles
	Expiry Date:	12 months

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Image 1. Human Cadherin-2/N-Cadherin PicoKine ELISA Kit standard curve

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