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N-Cadherin ELISA Kit



Overview

Quantity:	1 kit
Target:	N-Cadherin (CDH2)
Reactivity:	Rat
Method Type:	Sandwich ELISA
Detection Range:	0.78 ng/mL - 50 ng/mL
Minimum Detection Limit:	0.78 ng/mL
Application:	ELISA

Product Details

Purpose:	Sandwich ELISA for Quantitative Detection of Antigen	
Sample Type:	Cell Culture Supernatant, Plasma (EDTA - heparin), Serum	
Analytical Method:	Quantitative	
Detection Method:	Colorimetric	
Characteristics:	Synonyms: CDw325, CDHN, Neural cadherin, N-cadherin, CD325	
	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.

Gene Name: CDH2

Production: Natural and recombinant rat Cadherin-2. There is no detectable cross-reactivity with other relevant proteins.

Standard: Expression system for standard: NSO, Immunogen sequence: D160-A724

Target Details

Target:	N-Cadherin (CDH2)	
Alternative Name:	Cadherin-2 - N-Cadherin (CDH2 Products)	
Gene ID:	83501	
NCBI Accession:	NP_112623	
UniProt:	Q9Z1Y3	
Pathways:	Regulation of Muscle Cell Differentiation, Cell-Cell Junction Organization, Synaptic Membrane	
Application Dataila		
Application Details		

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Application Note: Useful in Sandwich ELISA for Quantitative Detection of Antigen. Aliquot 0.1 mL per well of the 50 ng/mL, 25 ng/mL, 12.5 ng/mL, 6.25 ng/mL, 3.12 ng/mL, 1.56 ng/mL, 0.78 ng/mL rat Cadherin-2 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 rat cell culture supernates, serum or plasma(heparin, EDTA) to each empty well. We recommend that each rat Cadherin-2 standard solution and each sample is measured in duplicate.

Blood Product Anticoagulant: Heparin Sodium

ELISA Dilution: 0.78 ng/mL-50 ng/mL

Sample Volume: 100 µL

Plate: Pre-coated

Restrictions: For Research Use only

Handling

Storage: RT,4 °C,-20 °C

Handling

Storage Comment:

Store vials at 4°C prior to opening. Centrifuge product if not completely clear after standing at room temperature. This product is stable for 6 months at 4°C as an undiluted liquid. Dilute only prior to immediate use. For extended storage freeze at -20°C or below for 12 months. Avoid cycles of freezing and thawing.