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Datasheet for ABIN5510579

N-Cadherin ELISA Kit

1 Image

Overview

Quantity:	96 tests
Target:	N-Cadherin (CDH2)
Binding Specificity:	AA 160-724
Reactivity:	Dog
Method Type:	Sandwich ELISA
Application:	ELISA

Product Details

Purpose:	Sandwich High Sensitivity ELISA kit for Quantitative Detection of Dog Caninea Cadherin-2/N-Cadherin
Brand:	PicoKine™
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Specificity:	Expression system for standard: NSO Immunogen sequence: D160-A724
Cross-Reactivity (Details):	There is no detectable cross-reactivity with other relevant proteins.

Target Details

Target:	N-Cadherin (CDH2)
Alternative Name:	CDH2 (CDH2 Products)

Target Details

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 Dog Canineas 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.

UniProt: [P19022](#)

Pathways: [Regulation of Muscle Cell Differentiation](#), [Cell-Cell Junction Organization](#), [Synaptic Membrane](#)

Application Details

Plate: Pre-coated

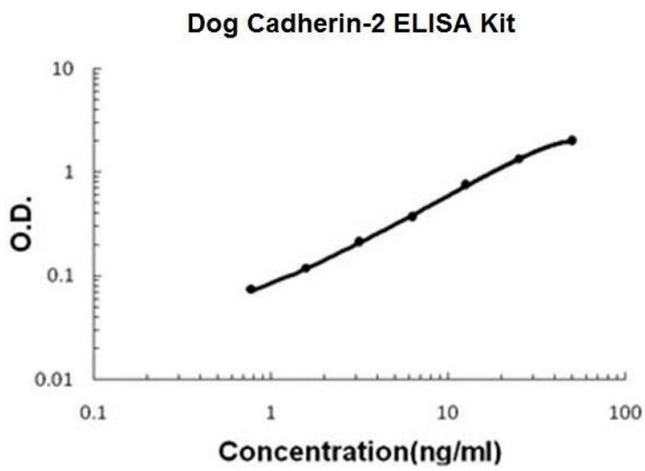
Restrictions: For Research Use only

Handling

Storage: 4 °C,-20 °C

Storage Comment: Store at 4 °C for 6 months, at -20 °C for 12 months. Avoid multiple freeze-thaw cycles(Shipped with wet ice.)

Expiry Date: 12 months



ELISA

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