

Rat Cadherin-2,N-Cadherin ELISA Kit

Catalog No: #EK5500

Orders: order@signalwayantibody.comSupport: tech@signalwayantibody.com

Description

Product Name	Rat Cadherin-2,N-Cadherin ELISA Kit
Specificity	Rat
Crossing Reactivity	There is no detectable cross-reactivity with other relevant proteins.
Immunogen Type	NSO,D160-A724
Other Names	Cadherin-2; Neural cadherin; N-cadherin; CD325; Cdh2;
Accession No.	Q9Z1Y3
Uniprot	Q9Z1Y3
GeneID	83501;
Cell Localization	Cell membrane; Single-pass type I membrane protein.

Application Details

sensitivity:20pg mlDetect Range:0.78ng ml-50ng ml
sample_type:cell culture supernates cell lysates tissue homogenates serum and plasma (heparin EDTA).
capture_antibody:monoclonal antibody from mouse
detection_antibody:polyclonal antibody from goat
gene_name:CDH2
protein_name:Cadherin-2
gene_full_name:Cadherin-2
tissue_specificity: In testis expressed in Sertoli and germ cells.
sequence_similarities:tmb_incubation:20-25min
research_category:signal transduction|cytoskeleton / ecm|cell adhesion|cadherins

Product Description

Sandwich High Sensitivity ELISA kit for Quantitative Detection of Rat Cadherin-2,N-Cadherin

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).. 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.

Note: This product is for in vitro research use only