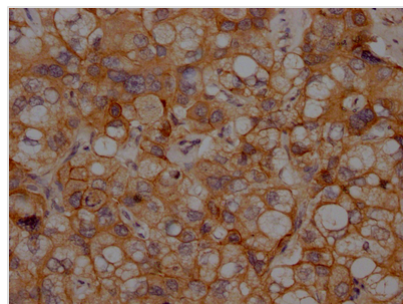




# CDH2 Antibody

<b>Product Code</b>	CSB-RA243509A0HU
<b>Storage</b>	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
<b>Uniprot No.</b>	P19022
<b>Immunogen</b>	A synthesized peptide derived from human N Cadherin
<b>Species Reactivity</b>	Human
<b>Tested Applications</b>	ELISA, IHC; Recommended dilution: IHC:1:50-1:200
<b>Relevance</b>	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).
<b>Form</b>	Liquid
<b>Conjugate</b>	Non-conjugated
<b>Storage Buffer</b>	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
<b>Purification Method</b>	Affinity-chromatography
<b>Isotype</b>	Rabbit IgG
<b>Clonality</b>	Monoclonal
<b>Product Type</b>	Recombinant Antibody
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Research Area</b>	Cancer; Signal transduction; Stem cells
<b>Gene Names</b>	CDH2
<b>Accession NO.</b>	1A9

## Image



IHC image of CSB-RA243509A0HU diluted at 1:100 and staining in paraffin-embedded human liver cancer performed on a Leica Bond™ system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a Goat anti-rabbit IgG polymer labeled by HRP and visualized using 0.05% DAB.



## Description

CDH2 is engaged in morphogenetic processes throughout the formation of cardiac and neural tissues, as well as osteogenesis, skeletal myogenesis, and vascular maturation during development. In adults, CDH2 is expressed by neural cells, endothelial cells, stromal cells, and osteoblasts, among other cell types, and is important for synapse function, vascular stability, and bone homeostasis. CDH2 plays a role in neurons, cardiac muscle, and cancer metastasis. Abnormal expression of CDH2 is a hallmark of EMT in many forms of solid tumors, culminating in the acquisition of an aggressive tumor phenotype.

The main steps in the production of this CDH2 recombinant antibody include immunization; harvest of positive spleen cells; obtaining the antibody sequence by screening and sequencing; expression of the target antibody in mammalian cells; purification. The CDH2 antibody was produced recombinantly and has many advantages: high reproducibility, specificity and scalability. And has been validated in ELISA, IHC.