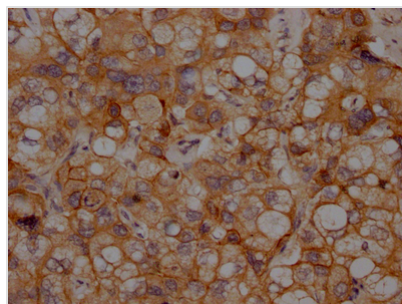




CDH2 Recombinant Monoclonal Antibody

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

Image



IHC image of CSB-RA243509A0HU diluted at 1:100 and staining in paraffin-embedded human liver cancer performed on a Leica BondTM 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? overnight. The primary is detected by a Goat anti-rabbit IgG polymer labeled by HRP and visualized using 0.05% DAB.



Description

The preparation of the CDH2 recombinant monoclonal antibody is based on protein technology and DNA recombinant technology. First, mice were immunized with a synthesized peptide derived from human N Cadherin. After a certain period of time, the spleen of the mice was removed under aseptic conditions. The total RNA of spleen cells was extracted, and the cDNA synthesized by RNA reverse transcription was used as the template for PCR amplification of the CDH2 antibody gene. The obtained CDH2 antibody gene is introduced into a vector, which is then transfected into host cells for culture. The CDH2 recombinant monoclonal antibody is purified from the cell culture supernatant by affinity chromatography. It has been rigorously verified and can be used for human CDH2 protein detection in ELISA and IHC experiments.

The CDH2 protein, also known as N-cadherin, is involved in various cellular processes, including cell adhesion, migration, signaling, tissue development, maintenance, and repair. In cells, the CDH2 protein forms homophilic interactions with other CDH2 proteins in neighboring cells, leading to the formation of cell-cell adhesions. During development and tissue repair, CDH2 promotes cell migration by binding to extracellular matrix proteins, such as fibronectin and laminin, as well as by interacting with intracellular signaling molecules, such as the small GTPase RhoA. Dysregulation of its expression or function can lead to various diseases, including cancer and cardiovascular disease.