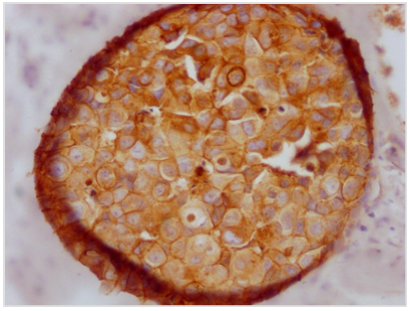
CDH1 Recombinant Monoclonal Antibody

Product Code	CSB-RA576116A0HU
Storage	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
Uniprot No.	P12830
Immunogen	A synthesized peptide derived from human E Cadherin
Species Reactivity	Human
Tested Applications	ELISA, IHC; Recommended dilution: IHC:1:50-1:200
Relevance	Cadherins are calcium-dependent cell adhesion proteins (PubMed:11976333). They preferentially interact with themselves in a homophilic manner in connecting cells; cadherins may thus contribute to the sorting of heterogeneous cell types. CDH1 is involved in mechanisms regulating cell-cell adhesions, mobility and proliferation of epithelial cells (PubMed:11976333). Has a potent invasive suppressor role. It is a ligand for integrin alpha-E/beta-7.
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; Developmental biology; Signal transduction
Gene Names	CDH1
Clone No.	1E1

Image



IHC image of CSB-RA576116A0HU diluted at 1:100 and staining in paraffin-embedded human breast 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 CDH1 recombinant monoclonal antibody is produced on the basis of recombinant DNA technology and can detect human CDH1 protein in ELISA

and IHC applications. To create the antibody, the gene that codes for the CDH1 monoclonal antibody is synthesized by sequencing the cDNA of CDH1 antibody-producing hybridomas. These hybridomas are generated by fusing B cells from animals immunized with a synthesized peptide derived from human CDH1 with myeloma cells. The synthesized gene is then cloned into a vector and transfected into cells for cultivation. Finally, the resulting CDH1 recombinant monoclonal antibody is purified through affinity chromatography from the cell culture supernatant.

The CDH1 protein, also known as E-cadherin, is a calcium-dependent cell adhesion molecule that plays a critical role in maintaining cell-cell adhesion and tissue integrity. CDH1 is primarily expressed in epithelial tissues, where it mediates the formation of adherens junctions (AJs) between adjacent cells. CDH1 has been implicated in the regulation of various cellular processes, including cell proliferation, differentiation, migration, and apoptosis. Dysregulation of CDH1 expression or function has been associated with various diseases, including cancer and developmental disorders.