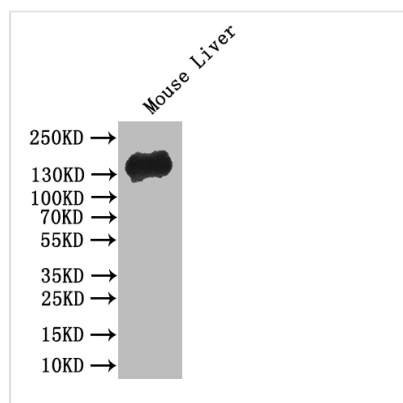




CDH1 Recombinant Monoclonal Antibody

Product Code	CSB-RA005034MA1HU
Storage	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
Uniprot No.	P12830
Immunogen	Recombinant Human CDH1 protein
Species Reactivity	Human, Mouse
Tested Applications	ELISA, WB, IHC, FC; Recommended dilution: WB:1:1000-1:5000, IHC:1:20-1:200, FC:1:20-1:200
Form	Liquid
Conjugate	Non-conjugated
Storage Buffer	Preservative: 0.03% Proclin 300 Constituents: 50% Glycerol, 0.01M PBS, PH 7.4
Purification Method	Affinity-chromatography
Isotype	Mouse IgG
Clonality	Monoclonal
Product Type	Recombinant Antibody
Immunogen Species	Homo sapiens (Human)
Research Area	Cancer;Developmental biology;Signal transduction
Gene Names	CDH1
Clone No.	30B12

Image



Western Blot

Positive WB detected in: Mouse Liver tissue lysate

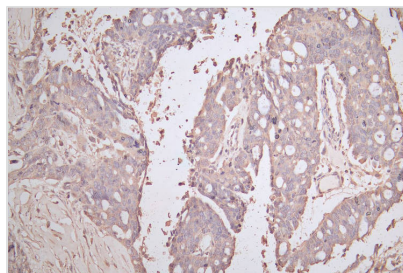
All lanes: CDH1 antibody at 1:500

Secondary

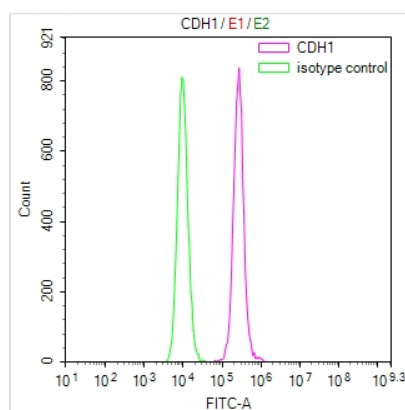
Goat polyclonal to mouse IgG at 1/50000 dilution

Predicted band size: 80-135 kDa

Observed band size: 135 kDa



IHC image of CSB-RA005034MA1HU diluted at 1:200 and staining in paraffin-embedded human endometrial 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-Mouse IgG labeled by HRP and visualized using 0.05% DAB.



Overlay Peak curve showing MCF7 cells stained with CSB-RA005034MA1HU (red line) at 1:100. The cells were fixed in 4% formaldehyde (15min) and permeated by 0.2% TritonX-100 for 10min. Then 10% normal goat serum to block non-specific protein-protein interactions followed by the antibody (1 μ g/1*10⁶cells) for 45min at 4°C. The secondary antibody used was FITC-conjugated Goat Anti-Mouse IgG(H+L) at 1/200 dilution for 35 min at 4°C. Isotype control antibody (green line) was mouse IgG1 (1 μ g/1*10⁶cells) used under the same conditions. Acquisition of >10,026 events was performed.

Description

The generation of the recombinant monoclonal antibody specific to CDH1 involves the initial step of inserting CDH1 antibody genes into plasmid vectors. These recombinant plasmid vectors are then introduced into appropriate host cells for expression using exogenous protein expression technology. Following this, the CDH1 recombinant monoclonal antibody is subject to purification using affinity chromatography. It has been meticulously validated for multiple applications, including ELISA, WB, and IHC. Notably, this antibody exhibits reactivity with both human and mouse CDH1 proteins.

CDH1 (E-cadherin) is a fundamental protein that governs calcium-dependent cell-cell adhesion in epithelial tissues. Its primary function is to promote tissue integrity, control cell behavior, and participate in developmental processes. Dysfunction or loss of CDH1 function can have significant implications for tissue stability and is associated with various diseases, including cancer.