**E-cadherin Ab**

**Cat.#:** AF0131  
**Concn.:** 1mg/ml  
**Mol.Wt.:** 120kDa

**Size:** 100ul, 200ul  
**Source:** Rabbit  
**Clonality:** Polyclonal

**Application:**  
WB: 1:500~1:3000  
IHC: 1:50~1:200  
IF/ICC: 1:100~1:500

**Reactivity:**  
Human, Mouse, Rat

**Purification:**  
The antiserum was purified by peptide affinity chromatography using SulfoLink™ Coupling Resin (Thermo Fisher Scientific).

**Specificity:**  
E-cadherin Ab detects endogenous levels of total E-cadherin.

**Immunogen:**  
A synthesized peptide derived from human E-cadherin.

**Uniprot:**  
P12830

**Description:**  
CDH1 a single-pass type I membrane protein, and calcium dependent cell adhesion proteins. It is a ligand for integrin alpha-E/beta-7, and it colocalizes with DLG7 at sites of cell-cell contact in intestinal epithelial cells. Anchored to actin microfilaments through association with alpha-, beta- and gamma-catenin. Sequential proteolysis induced by apoptosis or calcium influx, results in translocation from sites of cell-cell contact to the cytoplasm. Involved in mechanisms regulating cell-cell adhesions, mobility and proliferation of epithelial cells. Defects in CDH1 are involved in dysfunction of the cell-cell adhesion system, triggering cancer invasion (gastric, breast, ovary, endometrium and thyroid) and metastasis.

**Subcellular Location:**  

**Tissue Specificity:**  
Non-neural epithelial tissues.

**Similarity:**  
Three calcium ions are usually bound at the interface of each cadherin domain and rigidify the connections, imparting a strong curvature to the full-length ectodomain.

**Storage Condition and Buffer:**  
Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at -20°C.
°C. Stable for 12 months from date of receipt.

Western blot analysis of extracts from Mouse lung, using E-cadherin Ab. The lane on the left was treated with blocking peptide.

Western blot analysis of extracts from mouse brain, using E-cadherin Ab.

Western blot analysis on mouse liver tissue lysates using E-cadherin Ab.

IHC analysis of paraffin-embedded rat kidney tissue at dilution of 1:100.

AF0131 at 1/50 staining human colon cancer tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the Ab for 1.5 hours at 22°C. An HRP conjugated goat anti-rabbit Ab was used as the secondary.
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E-cadherin for IHC in human HepG2, Provided by Tianjin University

**IMPORTANT:** For western blot, incubate membrane with diluted primary Ab in 5% w/v milk, 1X TBS, 0.1% Tween®20 at 4°C with gentle shaking, overnight.