E-cadherin Ab

Cat.#: AF0131  
Size: 100ul,200ul  
Concn.: 1mg/ml  
Source: Rabbit  
Mol.Wt.: 120kDa  
Clonality: Polyclonal

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

Reactivity:  
Human, Mouse, Rat

Purification:  
Affinity-chromatography

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, ovarian, 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. Stable for 12 months from date of receipt.
Western blot analysis on 293 cell lysate using E-cadherin Ab. The lane on the left is treated with the antigen-specific peptide.

E-cadherin for IHC in human HepG2, provided by Tianjin University

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

E-cadherin, β-catenin, vimentin, MMP-2 and MMP-9 which are EMT-related proteins, were assessed in terms of expression levels. EMT-related transcription factors (Snail, Slug, Twist and ZEB1) were measured in A549/PTX and A549/DDP cells using western blot analysis.

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.

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.
IHC analysis.

JAM-A induced B-lymphoma cell invasion. (A,B) Epithelial-mesenchymal transition (EMT) was observed in JAM-A-overexpressing DB cells (A) and in DLBCL patients with high JAM-A expression (B). (C,D) JAM-A-transfected DB cells acquired increased cell invasion (C), which was inhibited in JAM-A-ShRNA-transfected cells (D). Data in (A,C and D) are representative of three independent experiments.

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

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