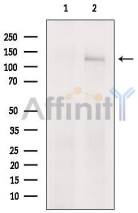
E-cadherin Ab

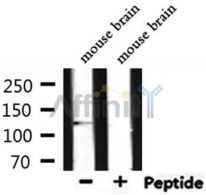
Cat.#: AF0131	Concn.: 1mg/ml	Mol.Wt.: 120kDa
Size: 100ul,200ul	Source: Rabbit	Clonality: Polyclonal

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:	Cell junction. Cell membrane. Endosome. Golgi apparatus > trans-Golgi network. Colocalizes with DLGAP5 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. Colocalizes with RAB11A endosomes during its transport from the Golgi apparatus to the plasma membrane.
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

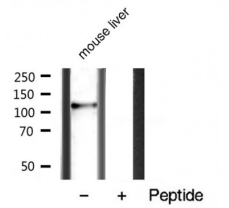
°C.Stable for 12 months from date of receipt.



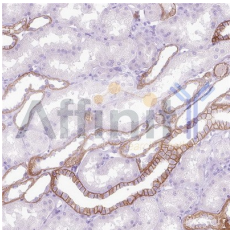
Western blot analysis of extracts from Mouse lung, using E-cadherin Ab. The lane on the left was treated with blocking peptide.



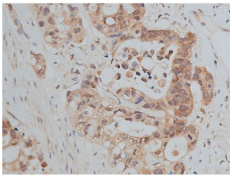
Western blot analysis of extracts from mouse brain, using E-cadherin Ab.



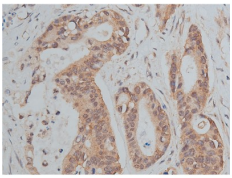
Western blot analysis on mouse liver tissue lysates using E-cadherin Ab



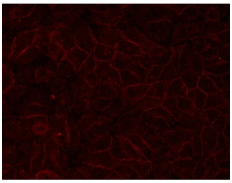
IHC analysis of paraffin-embedded rat kidney tissue at dilution of 1:100.



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.



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.



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.