

# Anti-E-cadherin Antibody [3-F9]

## M1405-3



<b>Product Type:</b>	Mouse monoclonal IgG2b, primary antibodies
<b>Species reactivity:</b>	Human, Mouse
<b>Applications:</b>	IHC-P
<b>Molecular Wt:</b>	~130kDa
<b>Clone number:</b>	3-F9

**Description:** E-cadherin (epithelial) is the most well-studied member of the cadherin family. It consists of 5 cadherin repeats (EC1 ~ EC5) in the extracellular domain, one transmembrane domain, and an intracellular domain that binds p120-catenin and beta-catenin. The intracellular domain contains a highly-phosphorylated region vital to beta-catenin binding and, therefore, to E-cadherin function. Loss of E-cadherin function or expression has been implicated in cancer progression and metastasis. E-cadherin downregulation decreases the strength of cellular adhesion within a tissue, resulting in an increase in cellular motility. This in turn may allow cancer cells to cross the basement membrane and invade surrounding tissues. E-cadherin is also used by pathologists to diagnose different kinds of breast cancer.

**Immunogen:** Recombinant protein within mouse E-Cadherin aa 350-550.

**Positive control:** Human liver tissue, mouse liver tissue.

**Subcellular location:** Cell membrane

**Database links:** SwissProt: P12830 Human | P09803 Mouse

**Recommended Dilutions:**

**IHC-P** 1:200

**Storage Buffer:** 1\*PBS (pH7.4), 0.2% BSA, 40% Glycerol. Preservative: 0.05% Sodium Azide.

**Storage Instruction:** Store at +4°C after thawing. Aliquot store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.

**Purity:** Protein G affinity purified.

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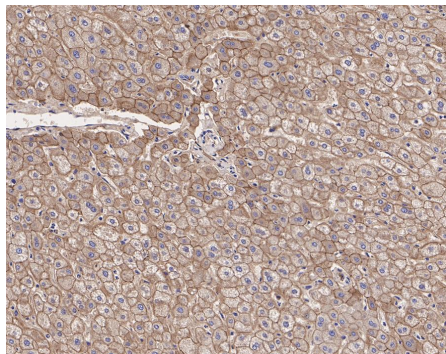
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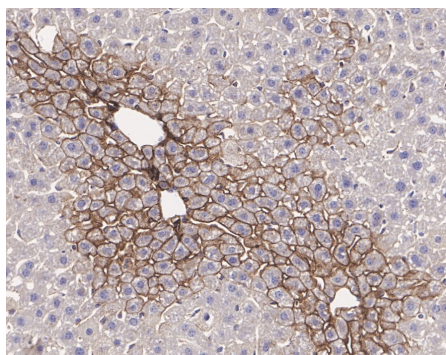
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## Images



**Fig1:** Immunohistochemical analysis of paraffin-embedded human liver tissue with Mouse anti-E-cadherin antibody (M1405-3) at 1/200 dilution.

The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 20 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with ddH<sub>2</sub>O and PBS, and then probed with the primary antibody (M1405-3) at 1/200 dilution for 1 hour at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.



**Fig2:** Immunohistochemical analysis of paraffin-embedded mouse liver tissue with Mouse anti-E-cadherin antibody (M1405-3) at 1/200 dilution.

The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 20 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with ddH<sub>2</sub>O and PBS, and then probed with the primary antibody (M1405-3) at 1/200 dilution for 1 hour at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.

**Note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

## Background References

1. Eger A, et al. (Mar 2005). "DeltaEF1 is a transcriptional repressor of E-cadherin and regulates epithelial plasticity in breast cancer cells." *Oncogene* 24 (14): 2375–85.
2. Liu YN, et al. (Dec 2005). "Regulatory mechanisms controlling human E-cadherin gene expression." *Oncogene* 24 (56): 8277–90.
3. Lombaerts M, et al. (Mar 2006). "E-cadherin transcriptional downregulation by promoter methylation but not mutation is related to epithelial-to-mesenchymal transition in breast cancer cell lines." *Br J Cancer* 94 (5): 661–71.

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