

**Antibody to E-cadherin**
MOUSE MONOCLONAL

Catalog Number: AB-V07
Quantity: 100 micrograms
Format: PBS (0.14 M Sodium Chloride; 0.003 M Potassium Chloride; 0.002 M Potassium Phosphate; 0.01 M Sodium Phosphate; pH 7.4), no preservative.
Host: Mouse
Clone: 19A11
Immunogen: human E-cadherin (partial, amino acids 155-707)

Background: Cadherin-1 (CDH1) is a key member of the cadherin superfamily, functioning as a calcium-dependent cell-cell adhesion glycoprotein. The protein is composed of five extracellular cadherin repeats, a transmembrane domain, and a conserved cytoplasmic tail. CDH1 plays an essential role in regulating epithelial cell adhesion, motility, and proliferation. Mutations in the CDH1 gene have been implicated in various cancers, including gastric, breast, colorectal, thyroid, and ovarian malignancies.

Specificity & Preparation: Mouse IgG1 monoclonal antibody generated against human E-cadherin (partial, amino acids 155-707) and recognizes human and dog E-cadherin (Epithelial-cadherin).

Usage: Applications include ELISA, immunoprecipitation, immunocytochemistry, and western blot. Working dilutions must be determined by end user.

Storage: Store antibody at -20°C for one year. Avoid repeated freezing and thawing. Gently spin down material 5-10 seconds in a microfuge before use.

**Selected References:**

1. Diekman AB, Norton EJ, Klotz KL, Westbrook VA, Shibahara H, Naaby-Hansen S, Flickinger CJ, Herr JC (1999) N-linked glycan of a sperm CD52 glycoform associated with human infertility. *FASEB J* 13(11):1303-1313. doi: 10.1096/fasebj.13.11.1303 PMID: 10428755

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