

Anti-E Cadherin [19A11] Bulk Size Ab03204-23.0-BT

This chimeric rabbit antibody was made using the variable domain sequences of the original Mouse IgG1 format for improved compatibility with existing reagents assays and techniques.

Isotype and Format: Rabbit IgG, Kappa

Clone Number: 19A11

Alternative Name(s) of Target: CD324; Cadherin-1; Cadherin E; E-Cadherin; epithelial cadherin; CAM 120/80; Uvomorulin

UniProt Accession Number of Target Protein: P12830

Published Application(s): agonist, WB, ELISA, FC

Published Species Reactivity: Dog, Human

Immunogen: The original antibody was generated by immunizing mice with purified ECad1-5 protein.

Specificity: This antibody recognizes the N-terminal extracellular cadherin repeat domain 1 (EC1) of the human E-cadherin. This antibody also cross reacts with canine E-cadherin. Cadherins are calcium-dependent cell adhesion proteins. It is localized on the surfaces of epithelial cells in regions of cell-cell contact known as adherens junctions. E-cadherins are reported to play an important role in cancer metastasis.

Application Notes: The initial screening of E-Cadherin-positive hybridoma supernatants for binding to live Colo 205 cells was done using an ELISA. Activating antibody 19A11 stimulated the adhesion of Colo 205 cells to pure E-cadherin substrate (PMID: 22513089). This antibody is also capable of recognizing denature human E-cadherin in a western blot. This antibody also inhibited the formation of epithelial tubules, causing the cells to remain as round epithelial cysts. This antibody also enhanced the adhesion of HGF-treated MDCK cells to E-cadherin when analyzed with the flow adhesion assay (PMID: 22513089). This antibody slowed the rate of wound closure in both normal culture medium and HGF-treated cultures (PMID: 22513089). This antibody is an E-cadherin activating antibody which stimulates the apoptosis of circulating tumor cells (PMID: 32127478). This antibody was used in determination of expression of E-cadherin on low-adherent Colo205 cells using flow cytometry (PMID: 27582386).

Antibody First Published in: Petrova et al. Conformational epitopes at cadherin calcium-binding sites and p120-catenin phosphorylation regulate cell adhesion. Mol Biol Cell. 2012 Jun 1; 23(11): 2092-2108.
[PMID:22513089](#)

Note on publication: The paper investigated the change in cadherin structure at the cell surface that regulate its adhesive activity.

Product Form

Size: 1 mg Purified antibody in bulk size.

Purification: Protein A affinity purified

Supplied In: PBS only.

Storage Recommendation: Store at 4°C for up to 3 months. Note, this antibody is provided without added preservatives, it is therefore recommended this antibody be handled under sterile conditions. For longer

storage, aliquot and store at -20°C.

Concentration: 1 mg/ml.

Important note – This product is for research use only. It is not intended for use in therapeutic or diagnostic procedures for humans or animals.