



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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See the following pages for more information!



### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

[mail@szabo-scandic.com](mailto:mail@szabo-scandic.com)

[www.szabo-scandic.com](http://www.szabo-scandic.com)

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

## Anti-E Cadherin [19A11] Standard Size Ab03204-10.0

This chimeric human 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:** Human IgG1, 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:** 200 µg Purified antibody.

**Purification:** Protein A affinity purified

**Supplied In:** PBS with 0.02% Proclin 300.

**Storage Recommendation:** Store at 4°C for up to 3 months. 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.