

## Anti-E Cadherin [56-4] Standard Size Ab03205-23.0

**Isotype and Format:** Rabbit IgG, Kappa

**Clone Number:** 56-4

**Alternative Name(s) of Target:** CD324; ARC-1; Cdh1; Cadherin-1; Cadherin E; E-Cadherin; Uvomorulin

**UniProt Accession Number of Target Protein:** P09803

**Published Application(s):** agonist, ELISA

**Published Species Reactivity:** Mouse

**Immunogen:** The original antibody was generated by immunizing rabbits with purified extracellular domain of mouse E-cadherin.

**Specificity:** This antibody binds mouse 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 binding of this antibody to mouse E-cadherin results in its activation. The initial binding characterization of this antibody to mouse E-cadherin was done using ELISA. This antibody was used to study the effect of activation of mouse E-cadherin on the growth and metastasis of a spontaneous breast cancer mouse model. Female MMTV-PyMT and control mice treated with 5 mg/kg of this antibody developed tumors in all 10 mammary glands. Also the number of metastasis nodules was significantly reduced with treatment with 56-4 activating antibody (PMID: 32127478; WO2020243616).

**Antibody First Published in:** Young Na et al. The functional activity of E-cadherin controls tumor cell metastasis at multiple steps. Proc Natl Acad Sci U S A. 2020 Mar 17;117(11):5931-5937. [PMID:32127478](#)

**Note on publication:** The paper describes the use of activating antibodies to determine the role of E-cadherin in regulation of metastasis.

## 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.