

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.