

Anti-E Cadherin [4A2] Bulk Size Ab01700-1.1-BT

Isotype and Format: Mouse IgG1, Lambda

Clone Number: 4A2

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

UniProt Accession Number of Target Protein: P12830

Published Application(s): IP, WB, FC, IF, IHC

Published Species Reactivity: Rat, Human, Mouse

Immunogen: The original mouse IgG1 version of this antibody was raised by immunizing mice with the recombinant maltose binding protein fused to full length human E-Cadherin.

Specificity: This antibody recognizes E cadherin which is one of the most important molecules in cell-cell adhesion in epithelial tissues. It is localized on the surfaces of epithelial cells in regions of cell-cell contact known as adherens junctions. The 4A2 monoclonal antibody recognizes the cytoplasmic domain of E-cadherin. The epitope has been mapped to residues 757-778.

Application Notes: 4A2 antibody has been widely used for identification and analysis of E cadherin. The original mouse IgG1 version was used to detect the intracellular domain of E cadherin in A431 or A431-E-cad-M cells (Nieman et al., 1999; pmid: 10212155). It was also demonstrated that this antibody can detect E cadherin on Western blots (Li et al., 2019; pmid: 31245295). Similarly, 4A2 antibody was also utilized to immunoprecipitate E cadherin from LNCaP and C4-2 cell extracts (Jaggi et al., 2005; pmid: 15695390).

Antibody First Published in: Nieman et al. Mechanism of extracellular domain-deleted dominant negative cadherins J Cell Sci. 1999 May;112 (Pt 10):1621-32. [PMID:10212155](#)

Note on publication: This article describes the characterization of the 4A2 antibody.

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.