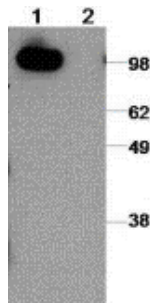


Anti-CD324 (E-Cadherin) Purified

Catalog Number: 14-3249

Also Known As: epithelial cadherin

RUO: For Research Use Only. Not for use in diagnostic procedures.



Immunoblot analysis of reduced MDCK cell line lysates with 2 µg/ml of Anti-Human CD324 (E-Cadherin) Purified and revealed with Anti-Rat IgG HRP. Lane 1: EDTA treated cells and Lane 2: Trypsin treated cells to remove from tissue culture dish.

Product Information

Contents: Anti-CD324 (E-Cadherin) Purified

REF **Catalog Number:** 14-3249

Clone: DECMA-1

Concentration: 0.5 mg/mL

Host/Isotype: Rat IgG1

Formulation: aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer



Temperature Limitation: Store at 2-8°C.



Batch Code: Refer to Vial



Use By: Refer to Vial



Caution, contains Azide

Description

The monoclonal antibody DECMA-1 recognizes mouse, human and canine CD324 also known as E-cadherin (Epithelial cadherin) or uvomorulin. Like the other cadherin family members P and N cadherin, E-cadherin is a transmembrane glycoprotein involved in intercellular adhesion. These proteins share a common basic structure. The extracellular portions of the proteins are largely composed of repeating domains, each with two consensus Ca²⁺-binding motifs. The cytoplasmic domain interacts with α-, β-, and γ-catenins and actinins. These catenins connect E-cadherin with the cytoskeleton.

Expression is found in most epidermal cells including melanocytes and keratinocytes. E-cadherin is localized at the intercellular boundaries of epithelial cells in several tissues, and is thought to play a role in maintenance of tissue integrity. Loss of E-cadherin function has been implicated in the progression of a variety of cancers.

E-Cadherin protein is sensitive to trypsin treatment, so exposure to trypsin should be minimized or avoided.

The monoclonal antibody DECMA-1 has been shown to have functional activity by disrupting adhesion in human, mouse and dog cells.

Applications Reported

This DECMA-1 antibody has been reported for use in flow cytometric analysis, immunoprecipitation, immunoblotting (WB), immunocytochemistry, and immunohistochemical staining. (Please use Functional Grade purified DECMA-1, cat. 16-3249, in functional assays.)

Applications Tested

This DECMA-1 antibody has been tested by western blot analysis of EDTA treated MDCK cell line. This can be used at less than or equal to 2 µg/mL. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

References

Spencer HL, Eastham AM, Merry CL, Southgate TD, Perez-Campo F, Soncin F, Ritson S, Kemler R, Stern PL, Ward CM. E-cadherin inhibits cell surface localization of the pro-migratory 5T4 oncofetal antigen in mouse embryonic stem cells. *Mol Biol Cell*. 2007 Aug;18(8):2838-51. (DECMA-1, FC, WB, FA, (in mouse))

Nakagawa M, Fukata M, Yamaga M, Itoh N, Kaibuchi K. Recruitment and activation of Rac1 by the formation of E-cadherin-mediated cell-cell adhesion sites. *J Cell Sci*. 2001 May;114(Pt 10):1829-38. (DECMA-1, FA in canine cells, PubMed)

Lee MG, Sharrow SO, Farr AG, Singer A, Udey MC. Expression of the homotypic adhesion molecule E-cadherin by immature murine thymocytes and thymic epithelial cells. *J Immunol*. 1994 Jun 15;152(12):5653-9. (DECMA-1, FC in mouse cells)

Tang A, Eller MS, Hara M, Yaar M, Hirohashi S, Gilchrist BA. E-cadherin is the major mediator of human melanocyte adhesion to keratinocytes in

vitro. J Cell Sci. 1994 Apr;107 (Pt 4):983-92. (DECMA-1, FC on human cells)

Vestweber D, Kemler R. Identification of a putative cell adhesion domain of uvomorulin. EMBO J. 1985 Dec 16;4(13A):3393-8. (DECMA-1, IP, WB, FA, PubMed)

Related Products

14-4301 Rat IgG1 K Isotype Control Purified

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