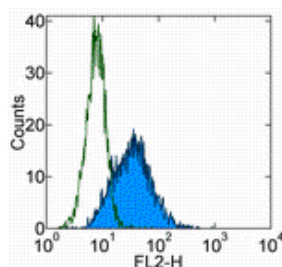


Anti-Human CD326 (EpCAM) Purified

Catalog Number: 14-9326

Also Known As: Epithelial cell adhesion molecule, KSA, TROP1

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



Staining of A549 human lung carcinoma cell line with 0.125 ug of Purified Mouse IgG1 kappa Isotype Control (cat. 14-4714) (open histogram) or 0.125 ug of Anti-Human CD326 (EpCAM) Purified (filled histogram) followed by F(ab')₂ Anti-Mouse IgG PE (cat. 12-4012). Total viable cells were used for analysis.

Product Information

Contents: Anti-Human CD326 (EpCAM) Purified

REF **Catalog Number:** 14-9326

Clone: 1B7

Concentration: 0.5 mg/mL

Host/Isotype: Mouse IgG1, kappa

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

EpCAM (Epithelial cell adhesion molecule, CD326, KSA, TROP1) is a 40 kD cell-surface adhesion molecule participating in homophilic, calcium-independent cell-cell interactions. EpCAM is a type-I transmembrane protein, and is expressed primarily on the basolateral surface of most epithelia. Although normal epithelia express low levels of EpCAM, increased expression has been correlated with increased proliferation and progression to a mesenchymal phenotype. EpCAM has also been used as a diagnostic marker on circulating metastatic carcinoma cells, while cancer cells of non-epithelial origin do not express EpCAM.

Applications Reported

This 1B7 antibody has been reported for use in flow cytometric analysis, immunohistochemistry on paraffin-embedded sections, and immunoprecipitation. The 1B7 antibody has also been found useful for immunoblotting, and recognizes a protein of approximately 40 kD under non-reducing conditions.

Applications Tested

This 1B7 antibody has been tested by flow cytometric analysis of A549 human lung carcinoma cells. This can be used at less than or equal to 0.25 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10⁵ to 10⁸ cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

References

Suzuki K, Nakamura K, Kato K, Hamada H, Tsukamoto T. Exploration of target molecules for prostate cancer gene therapy. Prostate. 2007 Aug 1;67(11):1163-73. (1B7, FC, IHC, PubMed)

Rao CG, Chianese D, Doyle GV, Miller MC, Russell T, Sanders RA Jr, Terstappen LW. Expression of epithelial cell adhesion molecule in carcinoma cells present in blood and primary and metastatic tumors. Int J Oncol. 2005 Jul;27(1):49-57. (PubMed)

Litvinov SV, Bakker HA, Gourevitch MM, Velders MP, Warnaar SO. Evidence for a role of the epithelial glycoprotein 40 (Ep-CAM) in epithelial cell-cell adhesion. Cell Adhes Commun. 1994 Oct;2(5):417-28. (PubMed)

Litvinov SV, Velders MP, Bakker HA, Fleuren GJ, Warnaar SO. Ep-CAM: a human epithelial antigen is a homophilic cell-cell adhesion molecule. J Cell Biol. 1994 Apr;125(2):437-46. (PubMed)

Related Products

11-4011 Anti-Mouse IgG FITC

11-4317 Streptavidin FITC

12-4012 F(ab')₂ Anti-Mouse IgG PE (Discontinued. Please Refer to alternative clone; cat. 12-4010) (polyclonal)

12-4317 Streptavidin PE

13-4013 Anti-Mouse IgG Biotin (Polyclonal)
14-4714 Mouse IgG1 K Isotype Control Purified (P3.6.2.8.1)
17-4317 Streptavidin APC

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