SONY

Product Data Sheet

Alexa Fluor® 700 anti-human CD326 (Ep-CAM)

Catalog # / Size: 2221215 / 25 tests
2221220 / 100 tests

Clone: 9C4

Isotype: Mouse IgG2b, κ

Immunogen: DU.4475 breast carcinoma

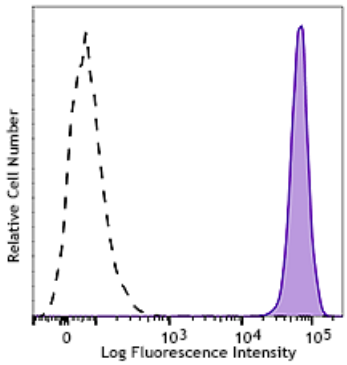
Reactivity: Human

Preparation: The antibody was purified by affinity chromatography and conjugated with Alexa Fluor® 700 under optimal conditions.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA).

Workshop Number: 750 under optimal conditions.

Concentration: Lot-specific



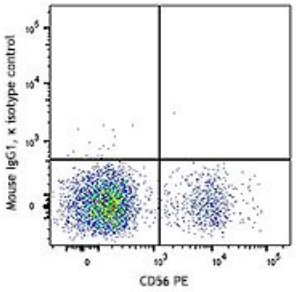
Human colon carcinoma cell line HT29 was stained with CD326 (clone 9C4) Alexa Fluor® 700 (filled histogram) or mouse IgG2b, κ Alexa Fluor® 700 isotype control (open historgram).

Applications:

Applications: Flow Cytometry

Recommended Usage: Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is 5 µl per million cells or 5 µl per 100 µl of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.

* Alexa Fluor® 700 has a maximum emission of 719 nm when it is excited at 633 nm / 635 nm. Prior to using Alexa Fluor® 700 conjugate for flow cytometric analysis, please verify your flow cytometer's capability of exciting and detecting the fluorochrome.



Application Notes: Additional reported applications (for the revelant formats) include: immunofluorescence and immunohistochemistry[3].

Application References:

1. Lammers R, *et al.* 2002. *Exp. Hematol.* 30:537.
2. Schultz LD, *et al.* 2010. *P. Natl. Acad. Sci. USA* 107:13022. PubMed
3. Human Protein Atlas http://www.proteinatlas.org/ENSG00000119888/antibody (IHC)

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Description: CD326 is also known as Ep-CAM, tumor associated calcium signal transducer 1, epithelial cell surface antigen, epithelial glycoprotein 2, EGP2, adenocarcinoma associated antigen, and TROP1. CD326 is a type I transmembrane protein containing six disulfide bridges and one THYRO domain. This cell surface glycosylated 40 kD protein is highly expressed in bone marrow, colon, lung, and most normal epithelial cells and is expressed on carcinomas of gastrointestinal origin. Recently, it has been reported that CD326 expression occurs during the early steps of erythrogenesis. CD326 functions as a homotypic calcium-independent cell adhesion molecule and is believed to be involved in carcinogenesis by its ability to induce genes involved in cellular metabolism and proliferation. CD326 antigen is an immunotherapeutic target for the treatment of human carcinomas.

Antigen References:

1. Strnad J, *et al.* 1989. *Cancer Res.* 49:314.
2. Munz M, *et al.* 2004. *Oncogene* 23:5748.
3. Rao CG, *et al.* 2005. *Int. J. Oncol.* 27:49.

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