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Product Data Sheet

Brilliant Violet 421™ anti-human CD326 (EpCAM)

Catalog # / Size: 324219 / 25 tests
324220 / 100 tests

Clone: 9C4

Isotype: Mouse IgG2b, κ

Immunogen: DU.4475 breast carcinoma

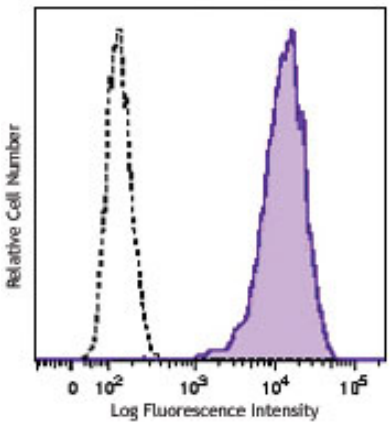
Reactivity: Human

Preparation: The antibody was purified by affinity chromatography and conjugated with Brilliant Violet 421™ under optimal conditions. The solution is free of unconjugated Brilliant Violet 421™ and unconjugated antibody.

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

Concentration: Lot-specific (please contact technical support for concentration and total µg amount)

Storage: The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. **Do not freeze.**



Human colon carcinoma cell line HT29 was stained with 9C4 Brilliant Violet 421™ (filled histogram) or mouse IgG2b, κ Brilliant Violet 421™ isotype control (open histogram).

Applications:

Applications: FC - *Quality tested*

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.

Brilliant Violet 421™ excites at 405 nm and emits at 421 nm. The standard bandpass filter 450/50 nm is recommended for detection. Brilliant Violet 421™ is a trademark of Sirigen Group Ltd.

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)

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.

Other Names: Ep-CAM, tumor associated calcium signal transducer 1, epithelial cell surface antigen, epithelial glycoprotein 2, EGP2, adenocarcinoma associated antigen, TROP1.

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.

Related Products:

Product	Clone	Application
Brilliant Violet 421™ Mouse IgG2b, κ Isotype Ctrl	MPC-11	FC, ICFC
Cell Staining Buffer		FC, ICC, ICFC
RBC Lysis Buffer (10X)		FC, ICFC
Human TruStain FcX™ (Fc Receptor Blocking Solution)		FC, ICC, ICFC

BioLegend Inc., 9727 Pacific Heights Blvd, San Diego, CA 92121 www.biolegend.com
Toll-Free Phone: 1-877-Bio-Legend (246-5343) Phone: (858) 768-5800 Fax: (877) 455-9587