

## TECHNICAL DATA SHEET

### CyFlow™ CD326 PE-Cy7 Anti-Hu; Clone VU-1D9

**REF** AT760023

**For Research Use Only.**  
**Not for use in diagnostic or therapeutic procedures.**

### Specifications

|                                    |                                                              |
|------------------------------------|--------------------------------------------------------------|
| <b>Antigen</b>                     | CD326                                                        |
| <b>Alternative Names</b>           | TACSTD1, EpCAM, EGP, EGP-40, MIC18, MK1, TROP1, hEGP-2, M4S1 |
| <b>Clone</b>                       | VU-1D9                                                       |
| <b>Clonality</b>                   | monoclonal                                                   |
| <b>Format</b>                      | PE-Cy7                                                       |
| <b>Host / Isotype</b>              | Mouse / IgG1                                                 |
| <b>Species Reactivity</b>          | Human                                                        |
| <b>Negative Species Reactivity</b> | —                                                            |
| <b>Quantity</b>                    | 100 tests                                                    |
| <b>Immunogen</b>                   | Small cell lung carcinoma cell line H69                      |

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## Specificity

The mouse monoclonal antibody VU-1D9 recognizes an epitope within EGF-like domain I of CD326 (EpCAM) antigen, a marker of epithelial lineages. This antibody strongly stains various normal epithelial cells and carcinomas.

## Application

The reagent is designed for Flow Cytometry analysis of human blood cells. Recommended usage is 4 µl reagent / 100 µl of whole blood or 10<sup>6</sup> cells in a suspension. The content of a vial (0.4 ml) is sufficient for 100 tests.

Other usages may be determined from the scientific literature.

## Storage Buffer

The reagent is provided in stabilizing phosphate buffered saline (PBS) solution, pH ≈7.4, containing 0.1% (w/v) sodium azide.

## Storage and Stability

|                  |                                                                               |
|------------------|-------------------------------------------------------------------------------|
| <b>Storage</b>   | Avoid prolonged exposure to light. Store in the dark at 2-8°C. Do not freeze. |
| <b>Stability</b> | Do not use after expiration date stamped on vial label.                       |

## Background Information

CD326 (EpCAM, ESA, EGP40, EGP-2, KSA1/4, CO17-1A, GA733-2, MOC31, Ber-EP4) is a 40 kDa transmembrane glycoprotein serving as adhesion molecule in the basolateral membranes in a variety of epithelial cells. CD326 mediates calcium-independent homotypic cell-cell adhesions. CD326 over-expression has been detected in many epithelial tumors and is often associated with bad prognosis. It has been used for diagnostics of (pre-) malignancies at early stages.

## References

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- Ogura E, Senzaki H, Yoshizawa K, Hioki K, Tsubura A: Immunohistochemical localization of epithelial glycoprotein EGP-2 and carcinoembryonic antigen in normal colonic mucosa and colorectal tumors. Anticancer Res. 1998 Sep-Oct; 18(5B):3669-75. < PMID: 9854475 >

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- Winter MJ, Nagtegaal ID, van Krieken JH, Litvinov SV: The epithelial cell adhesion molecule (Ep-CAM) as a morphoregulatory molecule is a tool in surgical pathology. Am J Pathol. 2003 Dec; 163(6):2139-48. < PMID: 14633587 >
- Brunner A, Prelog M, Verdorfer I, Tzankov A, Mikuz G, Ensinger C: EpCAM is predominantly expressed in high grade and advanced stage urothelial carcinoma of the bladder. J Clin Pathol. 2008 Mar; 61(3):307-10. < PMID: 17586680 >

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The Safety Data Sheet for this product is available at [www.sysmex-partec.com/services](http://www.sysmex-partec.com/services).

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