



11-581-C025

## Monoclonal Antibody to CD326 / EpCAM Purified Antibody (0.025 mg)

<b>Clone:</b>	VU-1D9
<b>Isotype:</b>	Mouse IgG1
<b>Specificity:</b>	The mouse monoclonal antibody VU-1D9 recognizes an epitope within EGF-like domain I of CD326 / EpCAM, a marker of epithelial lineages. This antibody strongly stains various normal epithelial cells and carcinomas.
<b>Regulatory Status:</b>	RUO
<b>Immunogen:</b>	Small cell lung carcinoma cell line H69.
<b>Species Reactivity:</b>	Human, Other species Not tested
<b>Application:</b>	Flow Cytometry Recommended dilution: 1-3 µg/ml Immunohistochemistry (paraffin sections) Recommended dilution: 5-10 µg/ml Positive control: colon epithelium Application note: antigen retrieval: heat (sodium citrate) + trypsin; mAb incubation: 1 hour / RT; detection DAB Immunoprecipitation Recommended dilution: 1-2 µg / 100-500 µg of protein in 1 ml lysate Western Blotting Recommended dilution: 1-4 µg/ml Immunohistochemistry (frozen sections) Immunocytochemistry Recommended dilution: 4 µg/ml
<b>Purity:</b>	> 95% (by SDS-PAGE)
<b>Purification:</b>	Purified by protein-A affinity chromatography
<b>Concentration:</b>	1 mg/ml
<b>Storage Buffer:</b>	Phosphate buffered saline (PBS) with 15 mM sodium azide, approx. pH 7.4
<b>Storage / Stability:</b>	Store at 2-8°C. Do not freeze. Do not use after expiration date stamped on vial label.
<b>Expiration:</b>	See vial label
<b>Lot Number:</b>	See vial label
<b>Background:</b>	CD326 / EpCAM (also known as 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 tumours and is often associated with bad prognosis. It has been used for diagnostics of (pre-) malignancies at early stages.

**For laboratory research only, not for drug, diagnostic or other use.**



**Antibodies**

- References:**
- \*Tsubura A, Senzaki H, Sasaki M, Hilgers J, Morii S: Immunohistochemical demonstration of breast-derived and/or carcinoma-associated glycoproteins in normal skin appendages and their tumors. *J Cutan Pathol.* 1992 Feb;19(1):73-9.
  - \*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.
  - \*Li G, Passebosc-Faure K, Lambert C, Gentil-Perret A, Blanc F, Oosterwijk E, Mosnier JF, Genin C, Tostain J: Flow cytometric analysis of antigen expression in malignant and normal renal cells. *Anticancer Res.* 2000 Jul-Aug;20(4):2773-8.
  - \*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.
  - \*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.

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