

Datasheet for ABIN457379
anti-EpCAM antibody (PE)



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Overview

Quantity:	100 tests
Target:	EpCAM (EPCAM)
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This EpCAM antibody is conjugated to PE
Application:	Flow Cytometry (FACS)

Product Details

Purpose:	Anti-Hu CD326 PE
Immunogen:	Small cell lung carcinoma cell line H69.
Clone:	VU-1D9
Isotype:	IgG1
Specificity:	The mouse monoclonal antibody VU-1D9 recognizes an extracellular epitope within EGF-like domain I of CD326 / EpCAM, a marker of epithelial lineages. This antibody strongly stains various normal epithelial cells and carcinomas.
Cross-Reactivity (Details):	Human, Other species Not tested
Purification:	Purified antibody is conjugated with R-phycoerythrin (PE) under optimum conditions. Unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography.

Target Details

Target:	EpCAM (EPCAM)
Alternative Name:	CD326 (EPCAM Products)
Background:	Epithelial cell adhesion molecule,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.,EPCAM, GA733-2, EGP314, KSA, KS 1/4 antigen, Trop-1, M4S1, DIAR5, MIC18, TROP1
Gene ID:	4072
UniProt:	P16422

Application Details

Application Notes:	Flow cytometry: The reagent is designed for analysis of human blood cells using 20 µL reagent / 100 µL of whole blood or 10 ⁶ cells in a suspension. The content of a vial (2 ml) is sufficient for 100 tests.
Restrictions:	For Research Use only

Handling

Reconstitution:	No reconstitution is necessary.
Buffer:	Stabilizing phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Do not freeze. Avoid prolonged exposure to light.
Storage:	4 °C
Storage Comment:	Store at 2-8°C. Protect from prolonged exposure to light. Do not freeze.

Publications

Product cited in:	Brunner, Prelog, Verdorfer, Tzankov, Mikuz, Ensinger: "EpCAM is predominantly expressed in
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high grade and advanced stage urothelial carcinoma of the bladder." in: **Journal of clinical pathology**, Vol. 61, Issue 3, pp. 307-10, (2008) ([PubMed](#)).

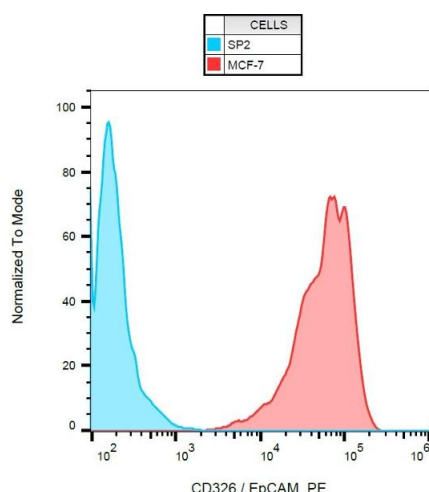
Winter, Nagtegaal, van Krieken, Litvinov: "The epithelial cell adhesion molecule (Ep-CAM) as a morphoregulatory molecule is a tool in surgical pathology." in: **The American journal of pathology**, Vol. 163, Issue 6, pp. 2139-48, (2003) ([PubMed](#)).

Li, Passebosc-Faure, Lambert, Gentil-Perret, Blanc, Oosterwijk, Mosnier, Genin, Tostain: "Flow cytometric analysis of antigen expression in malignant and normal renal cells." in: **Anticancer research**, Vol. 20, Issue 4, pp. 2773-8, (2000) ([PubMed](#)).

Ogura, Senzaki, Yoshizawa, Hioki, Tsubura: "Immunohistochemical localization of epithelial glycoprotein EGP-2 and carcinoembryonic antigen in normal colonic mucosa and colorectal tumors." in: **Anticancer research**, Vol. 18, Issue 5B, pp. 3669-75, (1999) ([PubMed](#)).

Tsubura, Senzaki, Sasaki, Hilgers, Morii: "Immunohistochemical demonstration of breast-derived and/or carcinoma-associated glycoproteins in normal skin appendages and their tumors." in: **Journal of cutaneous pathology**, Vol. 19, Issue 1, pp. 73-9, (1992) ([PubMed](#)).

Images



Flow Cytometry

Image 1. Flow cytometry analysis (surface staining) of human MCF-7 and SP2 cell lines with anti-human CD326 / EpCAM (VU-1D9) PE.