Datasheet for ABIN1302618

anti-EpCAM antibody (APC)

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Overview

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

Product Details

Purpose:	Anti-Hu CD326 APC
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 activated allophycocyanin (APC) under optimum conditions and 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 10 µL reagent / 100 µL of whole blood or 10^6 cells in a suspension. The content of a vial (1 ml) is sufficient for 100 tests.
Restrictions:	For Research Use only

Handling

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:	Avoid prolonged exposure to light. Do not use after expiration date stamped on vial label. Short-term exposure to room temperature should not affect the quality of the reagent. However, if reagent is stored under any conditions other than those specified, the conditions must be verified by the user.
Storage:	4 °C
Storage Comment:	Store at 2-8°C. Protect from prolonged exposure to light. Do not freeze.

Publications

Product cited in:

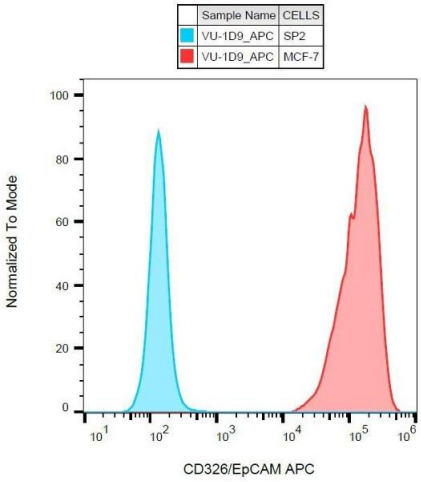
Brunner, Prelog, Verdorfer, Tzankov, Mikuz, Ensinger: "EpCAM is predominantly expressed in high grade and advanced stage urothelial carcinoma of the bladder." in: **Journal of clinical pathology**, Vol. 61, Issue 3, pp. 307-10, (2008) (PubMed).

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).

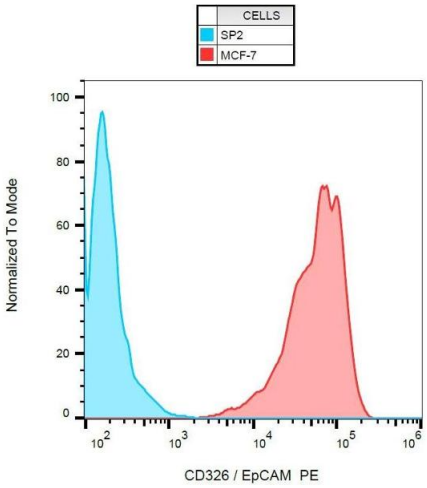
Tsubura, Senzaki, Sasaki, Hilgers, Morii: "Immunohistochemical demonstration of breast-derived and/or carcinoma-associated glycoproteins in normal skin appendages and their tumors." in: **Journal of cutaneous pathology**, Vol. 19, Issue 1, pp. 73-9, (1992) (PubMed).

Images



Flow Cytometry

Image 1. Surface staining of human MCF-7 cell line with anti-human CD326 / EpCAM (VU-1D9) APC.



Flow Cytometry

Image 2. Surface staining of human MCF-7 cell line with anti-human CD326 / EpCAM (VU-1D9) APC.