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## 30-2583: Anti-Human CD326 APC (Clone: 323/A3)

Clonality: Monoclonal
Clone Name: 323/A3
Application: FACS
Reactivity: Human
Conjugate: APC
Gene: EPCAM
Gene ID: 4072

Alternative Name: EPCAM, GA733-2, EGP314, KSA, KS 1/4 antigen, Trop-1, M4S1, DIAR5, MIC18, TROP1, epithelial

cell adhesion molecule

**Isotype:** Mouse IgG1

Immunogen Information: Human breast cancer MCF-7 cells

## **Description**

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.

Specificity: The mouse monoclonal antibody 323/A3 recognizes an extracellular epitope of CD326 / EpCAM, a marker of epithelial lineages, that is over-expressed in many carcinomas.

## **Product Info**

Amount: 100 tests

**Purification :** The purified antibody is conjugated with allophycocyanin (APC) under optimum conditions. The

conjugate is purified by size-exclusion chromatography.

**Content:** Formulation: Stabilizing phosphate buffered saline (PBS) solution containing 15 mM sodium

azide

**Storage condition:** Store in the dark at 2-8°C. Do not freeze. Avoid prolonged exposure to light.

## **Application Note**

Flow cytometry: The reagent is designed for analysis of human blood cells using 10  $\tilde{A} \square \hat{A} \mu l$  reagent / 100  $\tilde{A} \square \hat{A} \mu l$  of whole blood or 10<sup>6</sup> cells in a suspension. The content of a vial (1 ml) is sufficient for 100 tests.

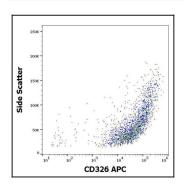


Figure 1 : Flow cytometry surface staining pattern of MCF-7 cell suspension stained using antihuman CD326 (323/A3) APC antibody (10  $\mu$ l reagent per million cells in 100  $\mu$ l of cell suspension).



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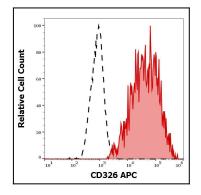


Figure 2 : Separation of MCF-7 cells (red-filled) from SP2 cells (black-dashed) in flow cytometry analysis (surface staining) stained using anti-human CD326 (323/A3) APC antibody (10  $\mu$ l reagent per million cells in 100  $\mu$ l of cell suspension).