

11-582-C100

Monoclonal Antibody to CD326 / EpCAM Purified Antibody (0.1 mg)

Clone:	323/A3
Isotype:	Mouse IgG1
Specificity:	The antibody 323/A3 recognizes CD326 / EpCAM, a marker of epithelial lineages, that is over-expressed in many carcinomas.
Regulatory Status:	RUO
Immunogen:	Human breast cancer MCF-7 cells
Species Reactivity:	Human
Negative Species:	Rat
Application:	Flow Cytometry Immunoprecipitation Recommended dilution: 1-4 µg / ml per 100-500 µg of protein in 1 ml lysate Western Blotting Recommended dilution: 1-4 µg/ml Positive control: A-431, MCF-7, SW480 cell lines Immunohistochemistry (paraffin sections) Recommended dilution: 1-10 µg/ml Pretreatment: Tissue section digestion with pepsin (15 min at RT or 10 min at 37°C, 1 mg / ml Tris-HCl, pH 2.0). Positive tissue: Breast carcinoma Immunocytochemistry Recommended dilution: 1-10 µg/ml
Purity:	> 95% (by SDS-PAGE)
Purification:	Purified by protein-A affinity chromatography
Concentration:	1 mg/ml
Storage Buffer:	Phosphate buffered saline (PBS) with 15 mM sodium azide, approx. pH 7.4
Storage / Stability:	Store at 2-8°C. Do not freeze. Do not use after expiration date stamped on vial label.
Expiration:	See vial label
Lot Number:	See vial label
Background:	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:**
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 - *Litvinov SV, Velders MP, Bakker HA, Fleuren GJ, Warnaar SO: Ep-CAM: a human epithelial antigen is a homophilic cell-cell adhesion molecule. *J Cell Biol.* 1994 Apr;125(2):437-46.
 - *Litvinov SV, Bakker HA, Gourevitch MM, Velders MP, Warnaar SO: Evidence for a role of the epithelial glycoprotein 40 (Ep-CAM) in epithelial cell-cell adhesion. *Cell Adhes Commun.* 1994 Oct;2(5):417-28.
 - *Balzar M, Bakker HA, Briare-de-Bruijn IH, Fleuren GJ, Warnaar SO, Litvinov SV: Cytoplasmic tail regulates the intercellular adhesion function of the epithelial cell adhesion molecule. *Mol Cell Biol.* 1998 Aug;18(8):4833-43.
 - *Balzar M, Briare-de Bruijn IH, Rees-Bakker HA, Prins FA, Helfrich W, de Leij L, Riethmüller G, Alberti S, Warnaar SO, Fleuren GJ, Litvinov SV: Epidermal growth factor-like repeats mediate lateral and reciprocal interactions of Ep-CAM molecules in homophilic adhesions. *Mol Cell Biol.* 2001 Apr;21(7):2570-80.
 - *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.
 - *Kirman I, Jenkins D, Fowler R, Whelan RL: Naturally occurring antibodies to epithelial cell adhesion molecule (EpCAM). *Dig Dis Sci.* 2003 Dec;48(12):2306-9.
 - *And many other.

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