

## Anti-Human CD326 (EpCAM) Antibody, Clone 323/A3



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## Antibodies

Mouse monoclonal IgG1 antibody  
against human CD326 (EpCAM),  
unconjugated

Catalog #60146

100 µg 1 mg/mL

## Product Description

The 323/A3 antibody reacts with the human epithelial cell adhesion molecule (EpCAM or CD326), an ~40 kDa type I transmembrane glycoprotein which functions as a homophilic and Ca<sup>++</sup>-independent adhesion molecule. EpCAM has roles in several cellular processes, including signaling, migration, proliferation, and differentiation. It is expressed early during erythropoiesis and has been identified as a stem cell marker. The EpCAM protein is found on the basolateral membrane of most normal epithelial cells and is highly expressed in bone marrow, colon, and lung. EpCAM is not expressed on mesothelial cells or mesotheliomas, and so is widely used as a diagnostic marker to distinguish mesothelioma and carcinoma cells, as well as serving as a target for immunotherapeutic treatment of carcinomas.

Target Antigen Name:	CD326 (EpCAM)
Alternative Names:	EGP2, EpCAM, Epithelial cell adhesion molecule, ESA, TACSTD1, TROP-1
Gene ID:	4072
Species Reactivity:	Human
Host Species:	Mouse (BALB/c)
Clonality:	Monoclonal
Clone:	323/A3
Isotype:	IgG1, kappa
Immunogen:	Human breast carcinoma cell line MCF7
Conjugate:	Unconjugated

## Applications

Verified:	FC, IHC
Reported:	ELISA, FC, IF, IHC, IP, WB

Abbreviations: CellSep: Cell separation; ChIP: Chromatin immunoprecipitation; FA: Functional assay; FC: Flow cytometry; ICC: Immunocytochemistry; IF: Immunofluorescence microscopy; IHC: Immunohistochemistry; IP: Immunoprecipitation; RIA: Radioimmunoassay; WB: Western blotting

## Properties

Formulation:	Phosphate-buffered saline
Purification:	The antibody was purified by affinity chromatography.
Stability and Storage:	Product stable at 2 - 8°C when stored undiluted. Do not freeze. For product expiry date, please contact <a href="mailto:techsupport@stemcell.com">techsupport@stemcell.com</a> .
Directions for Use:	The suggested use of this antibody is: FC, 1 - 3 µg per 1 x 10 <sup>6</sup> cells in 100 µL volume; IHC, 1 - 3 µg/mL. It is recommended that the antibody be titrated for optimal performance for each application.

## Related Products

For a complete list of antibodies, including other conjugates, sizes and clones, as well as related products available from STEMCELL Technologies, please visit our website at [www.stemcell.com/antibodies](http://www.stemcell.com/antibodies) or contact us at [techsupport@stemcell.com](mailto:techsupport@stemcell.com).

## References

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2. Shigdar S et al. (2013) The use of sensitive chemical antibodies for diagnosis: detection of low levels of EpCAM in breast cancer. *PLoS One* 8(2): e57613. (FC, IF, WB)
3. Litvinov S V et al. (1994) Ep-CAM: a human epithelial antigen is a homophilic cell-cell adhesion molecule. *J Cell Biol* 125(2): 437–46. (FC, IF, WB)
4. Tandon AK et al. (1990) Association of the 323/A3 surface glycoprotein with tumor characteristics and behavior in human breast cancer. *Cancer Res* 50(11): 3317–21. (WB)
5. Edwards DP et al. (1986) Monoclonal antibody identification and characterization of a Mr 43,000 membrane glycoprotein associated with human breast cancer. *Cancer Res* 46(3): 1306–17. (ELISA, IHC)

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