

Anti-Human CD326 (EpCAM) Antibody, Clone VU-1D9, FITC

Mouse monoclonal IgG1 antibody against human CD326 (EpCAM), FITC-conjugated

Catalog #100-1670

100 Tests

20 µL/test

Product Description

This monoclonal 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⁺⁺-independent adhesion molecule. Binding of the VU-1D9 antibody requires the presence of the extracellular EGF-1 domain of EpCAM. 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. The VU-1D9 antibody has been used to identify and isolate circulating tumor cells.

Target Antigen:	CD326 (EpCAM)
Alternative Names:	EGP2, EpCAM, Epithelial cell adhesion molecule, ESA, TACSTD1, TROP-1
Gene ID:	4072
Species Reactivity:	Human
Host Species:	Mouse
Clonality:	Monoclonal
Clone:	VU-1D9
Isotype:	IgG1, kappa
Immunogen:	Human small cell lung carcinoma cell line NCI-H69
Conjugate:	FITC (Fluorescein isothiocyanate)

Applications

Verified Applications: FC

Reported Applications: FC

Abbreviations: CellSep: Cell separation; ChIP: Chromatin immunoprecipitation; FA: Functional assay; FACS: Fluorescence-activated cell sorting; FC: Flow cytometry; FCXM: Flow cytometric crossmatch assay; FISH: Fluorescence in situ hybridization; ICC: Immunocytochemistry; IF: Immunofluorescence microscopy; IHC: Immunohistochemistry; IHC-F: Immunohistochemistry (frozen-tissue); IHC-P: Immunohistochemistry (paraffin-embedded); IP: Immunoprecipitation; NMR: Nuclear magnetic resonance spectroscopy; RIA: Radioimmunoassay; WB: Western blotting

Properties

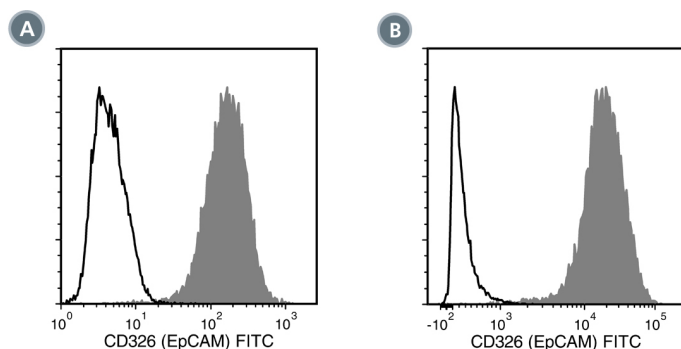
Product Formulation: Phosphate-buffered saline containing 0.1% bovine serum albumin and less than 0.1% sodium azide

Purification: The antibody was purified by affinity chromatography.

Stability and Storage: Product stable at 2 - 8°C when stored undiluted. Do not freeze. Protect product from prolonged exposure to light. For product expiry date, contact techsupport@stemcell.com.

Directions for Use: For flow cytometry, the suggested use of this antibody is 20 µL per 1×10^6 cells in 100 µL. The antibody also works well on paraffin sections; however, a heat-induced antigen retrieval protocol is required for optimal staining of formalin-fixed paraffin-embedded tissues. It is recommended that the antibody be titrated for optimal performance for each application.

Data



(A) Flow cytometry analysis of human embryonic stem (ES) cells labeled with Anti-Human CD326 (EpCAM) Antibody, Clone VU-1D9, FITC (filled histogram) or a mouse IgG1, kappa FITC isotype control antibody (solid line histogram). (B) Flow cytometry analysis of human MCF7 cells labeled with Anti-Human CD326 (EpCAM) Antibody, Clone VU-1D9, FITC (filled histogram) or Mouse IgG1, kappa Isotype Control Antibody, Clone MOPC-21, FITC (Catalog #60070FI; solid line histogram).

Related Products

For a complete list of antibodies, including other conjugates, sizes, and clones, as well as related products available from STEMCELL Technologies, visit www.stemcell.com/antibodies, or contact us at techsupport@stemcell.com.

References

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