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

Antibodies

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

Catalog #60136 100 µg 1 mg/mL

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Product Description

The VU-1D9 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 erythrogenesis 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 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:	VU-1D9
Isotype:	IgG1, kappa
Immunogen:	Human small cell lung carcinoma cell line NCI-H69
Conjugate:	Unconjugated

Applications

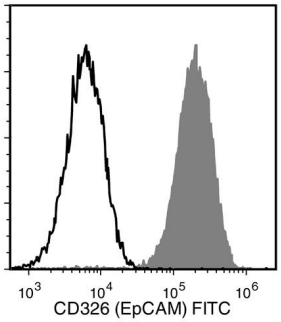
Verified:	FC, IHC
Reported:	CellSep, Epitope mapping, FC, IF, IHC

Abbreviations: CellSep: Cell separation; ChIP: Chromatin immunoprecipitation; FA: Functional assay; FACS: Fluorescence-activated cell sorting; 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 techsupport@stemcell.com.
Directions for Use:	The suggested use of this antibody is: FC, 1 - 3 µg per 1 x 10^6 cells in 100 µL; IHC, 1 - 3 µg/mL. It is recommended that the antibody be titrated for optimal performance for each application.

Data



Flow cytometry analysis of human MCF7 cells labeled with Anti-Human CD326 (EpCAM) Antibody, Clone VU-1D9, followed by a rat anti-mouse IgG1 antibody, FITC (filled histogram) or a mouse IgG1, kappa isotype control antibody, followed by a rat anti-mouse IgG1 antibody, FITC (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, please visit our website at www.stemcell.com/antibodies or contact us at techsupport@stemcell.com.

References

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