

Anti-Hu CD326 Purified EPCAM Monoclonal Antibody

Catalog Number: M00276

About EPCAM

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.

Overview

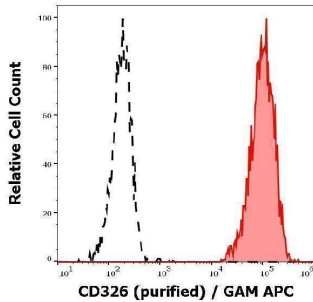
Product Name	Anti-Hu CD326 Purified EPCAM Monoclonal Antibody
Reactive Species	Human
Description	Boster Bio Anti-Hu CD326 Purified EPCAM Monoclonal Antibody (Catalog# M00276). Tested in Flow Cytometry, IHC-P, IP, WB, IHC-F, ICC application(s). This antibody reacts with Human.
Application	Flow Cytometry, IP, IHC-P, IHC-F, ICC, WB
Clonality	Monoclonal VU-1D9
Formulation	Phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Storage Instructions	Store at 2-8°C. Do not freeze.
Host	Mouse
Uniprot ID	P16422

Technical Details

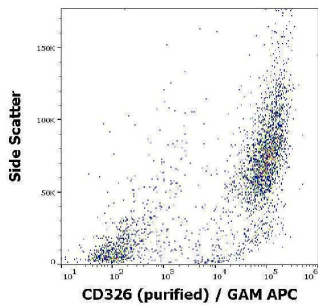
Immunogen	Small cell lung carcinoma cell line H69. The mouse monoclonal antibody VU-1D9 recognizes an extracellular epitope within EGF-like domain I of CD326 / EpCAM, a marker of epithelial lineages. This antibody strongly stains various normal epithelial cells and carcinomas.
Predicted Reactive Species	Primate
Isotype	Mouse IgG1
Form	Liquid
Concentration	1 mg/ml
Purification	Purified by protein-A affinity chromatography.
Suggested Dilutions	Immunohistochemistry (paraffin sections): 5-10 ug/ml; positive control: colon epithelium, antigen retrieval: heat (sodium citrate) + trypsin. Immunocytochemistry: 4 ug/ml.

Western blotting: 1-4 ug/ml, non-reducing conditions.
Flow cytometry: 1-3 ug/ml.
Immunoprecipitation: 1-2 ug / 100-500 ug of protein in 1 ml lysate.

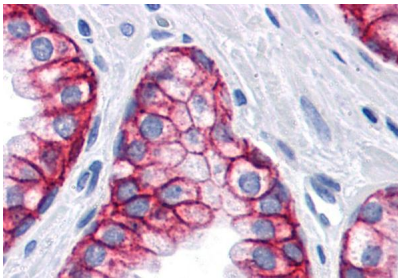
Anti-Hu CD326 Purified EPCAM Monoclonal Antibody (M00276) Images



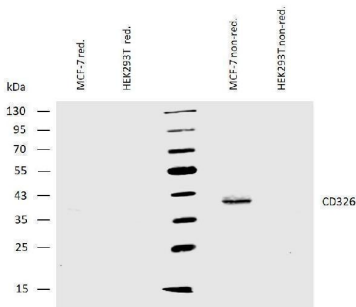
Separation of MCF-7 cells (red-filled) from SP2 cells (black-dashed) in flow cytometry analysis (surface staining) of cell lines stained using anti-human CD326 (VU-1D9) purified antibody (concentration in sample 6 $\mu\text{g/ml}$) GAM APC.



Flow cytometry surface staining pattern of MCF-7 cells stained using anti-human CD326 (VU-1D9) purified antibody (concentration in sample 6 $\mu\text{g/ml}$) GAM APC.



Immunohistochemistry staining of human prostate (paraffin sections) using anti-CD326 (VU-1D9). Commercially tested by LifeSpan BioSciences.



Western blotting analysis of human CD326 using mouse monoclonal antibody VU-1D9 on lysates of MCF-7 cells and HEK293T cells (negative control) under reducing and non-reducing conditions. Nitrocellulose membrane was probed with 2 $\mu\text{g/ml}$ of mouse monoclonal antibody followed by IRDye800-conjugated anti-mouse secondary antibody. CD326 was detected around 40 kDa.

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