

Basic Information

Product Name	Anti-CD326/EPCAM Antibody	
Gene Name	Epcam	
Source	Rabbit	
Clonality	Polyclonal	
Isotype	IgG	
Species Reactivity	mouse, rat	
Tested Application	WB, IHC, IF, FCM, ELISA	
Contents	500 ug/ml antibody with PBS, 0.02% NaN3, 1 mg/ml BSA and 50% glycerol.	
Immunogen	E.coli-derived mouse CD326/Epcam recombinant protein (Position: Q24-A267).	
Concentration	500 ug/ml	
Purification	Immunogen affinity purified.	
Observed MW	35-40 kDa	
Dilution Ratios	Western blot (WB):	1:500-2000
	Immunohistochemistry (IHC):	1:50-400
	Immunofluorescence (IF):	1:50-400
	Flow Cytometry (Fixed):	1:50-200
	Enzyme linked immunosorbent assay (ELISA):	1:100-1000
	(Boiling the paraffin sections in 10mM citrate buffer, pH6.0, or PH8.0 EDTA repair liquid for 20 mins is required for the staining of formalin/paraffin sections.) Optimal working dilutions must be determined by end user.	

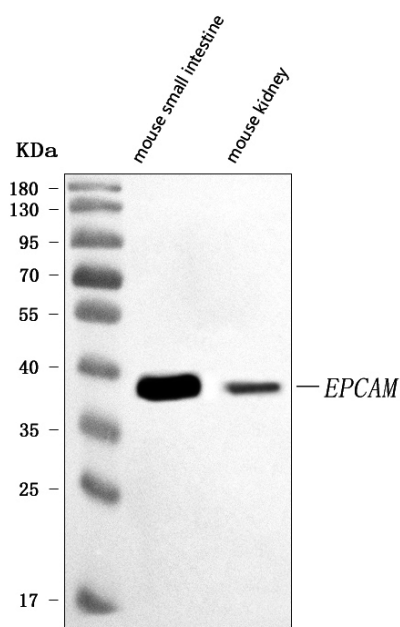
Storage

12 months from date of receipt, -20°C as supplied.

Background Information

Epithelial cell adhesion molecule (EpCAM) is a transmembrane glycoprotein mediating Ca²⁺-independent homotypic cell-cell adhesion in epithelia. This gene encodes a carcinoma-associated antigen and is a member of a family that includes at least two type I membrane proteins. This antigen is expressed on most normal epithelial cells and gastrointestinal carcinomas and functions as a homotypic calcium-independent cell adhesion molecule. The antigen is being used as a target for immunotherapy treatment of human carcinomas. Mutations in this gene result in congenital tufting enteropathy.

Selected Validation Data



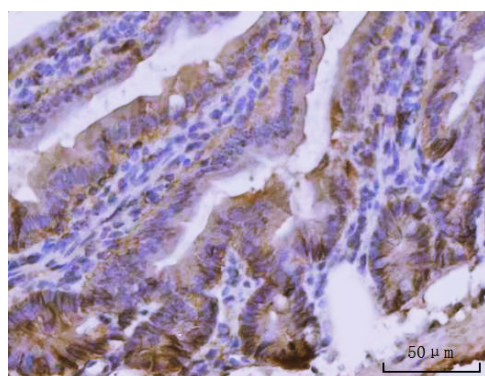
Western blot analysis of anti-CD326/Epcam antibody (A00276-2). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

Lane 1: mouse small intestine tissue lysates,

Lane 2: mouse kidney tissue lysates.

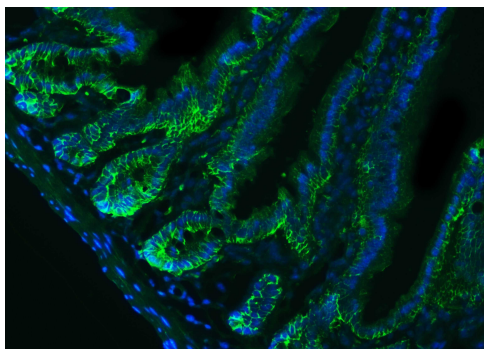
After electrophoresis, proteins were transferred to a membrane.

Then the membrane was incubated with rabbit anti-CD326/Epcam antigen affinity purified polyclonal antibody (A00276-2) and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for CD326/Epcam at approximately 38 kDa. The expected band size for CD326/Epcam is at 35,40 kDa.



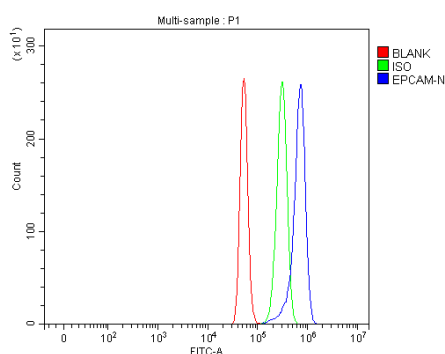
IHC analysis of CD326/Epcam using anti-CD326/Epcam antibody (A00276-2).

CD326/Epcam was detected in a paraffin-embedded section of mouse colon tissue. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB (Catalog # AR1027) as the chromogen.



IF analysis of CD326/Epcam using anti-CD326/Epcam antibody (A00276-2).

CD326/Epcam was detected in a paraffin-embedded section of mouse colon tissue. FITC Conjugated AffiniPure Goat Anti-rabbit IgG (H+L) Secondary Antibody (green)(Catalog#BA1105) was used as secondary antibody. The section was counterstained with DAPI (Catalog # AR1176) (Blue).



Flow Cytometry analysis of RAW264.7 cells using anti-CD326/Epcam antibody (A00276-2).

Overlay histogram showing RAW264.7 cells stained with A00276-2 (Blue line). The cells were fixed with 4% paraformaldehyde and blocked with 10% normal goat serum. And then incubated with rabbit anti-CD326/Epcam Antibody (A00276-2, 1:100). Fluoro488 conjugated goat anti-rabbit IgG (BA1127, 1:100) was used as secondary antibody. Isotype control antibody (Green line) was rabbit IgG (Catalog # BA1045) (1:100) used under the same conditions. Unlabelled sample (Red line) was also used as a control.