Alexa Fluor® 647 anti-mouse CD326 (Ep-CAM) Antibody

Catalog# / Size	114205 / 25 µg 114206 / 100 µg
Clone	W21115A
Regulatory Status	RUO
Other Names	CD326, EGP40, MIC18, TROP1, KSA
Isotype	Rat IgG2a, κ
Description	EpCAM (CD326) mediates calcium-independent homophilic cell to cell adhesion. It may also function as a growth factor receptor. It is thought to be involved in maintaining cells in position during proliferation. Expression of EpCAM seems to correlate inversely with the level of E-cadherin (CD324). EpCAM is considered important in tumor biology.

Product Details

Verified Reactivity	Mouse
Antibody Type	Monoclonal
Host Species	Rat
Immunogen	Recombinant protein aa24-266
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide
Preparation	The antibody was purified by affinity chromatography and conjugated with Alexa Fluor® 647 under optimal conditions.
Concentration	0.5 mg/mL
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. **Do not freeze**.
Application	IHC-F - Quality tested IHC-P - Verified
Recommended Usage	Each lot of this antibody is quality control tested by immunohistochemical staining on frozen tissue sections. For immunohistochemistry, a concentration range of 2.5 - 10.0 µg/mL is suggested. For immunohistochemistry on formalin-fixed paraffin-embedded tissue sections, a concentration range of 1.0 - 5.0 µg/mL is suggested. It is recommended that the reagent be titrated for optimal performance for each application. * Alexa Fluor® 647 has a maximum emission of 668 nm when it is excited at 633 nm / 635 nm. Alexa Fluor® and Pacific Blue™ are trademarks of Life Technologies Corporation. View full statement regarding label licenses
Excitation Laser	Red Laser (633 nm)
RRID	AB_3674976 (BioLegend Cat. No. 114205) AB_3674976 (BioLegend Cat. No. 114206)

Antigen Details

Structure	40 kD single-pass type 1 glycoprotein. 293 amino acids, with a 21 aa signal peptide, a 246 aa extracellular domain, a 21 aa transmembrane domain, and a 26 aa cytoplasmic domain. The extracellular domain contains two epidermal growth factor-like repeats.
Distribution	Expressed on majority of epithelial cell membranes with the exception of adult squamous cells of the skin and a few specific epithelial cell types
Function	Mediates calcium-independent homophilic cell-cell adhesion

Ligand/Receptor	CD305 (LAIR-1), CD306 (LAIR-2), and Ep-CAM
Cell Type	Embryonic Stem Cells, Epithelial cells
Biology Area	Immunology
Molecular Family	Adhesion Molecules, CD Molecules
Antigen References	1. Borkowski TA, *et al*. 1996. *Eur J Immunol.* 26:110-4. 2. Bergsagel PL, *et al*. 1992. *J Immunol*. 148:590-6.
Gene ID	17075

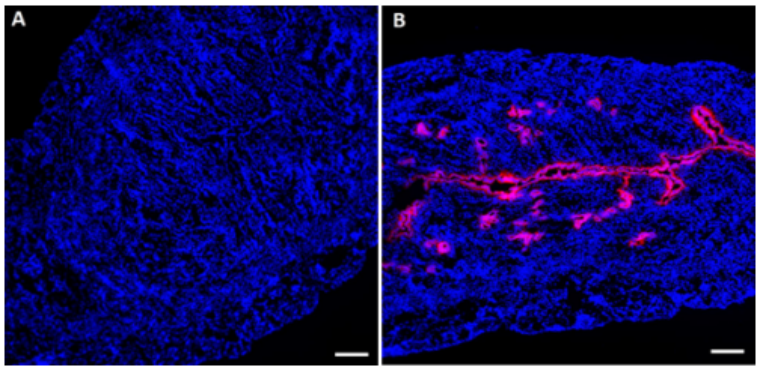
Related Protocols

- Immunohistochemistry Protocol for Frozen Sections
- Immunohistochemistry Protocol for Paraffin-Embedded Sections

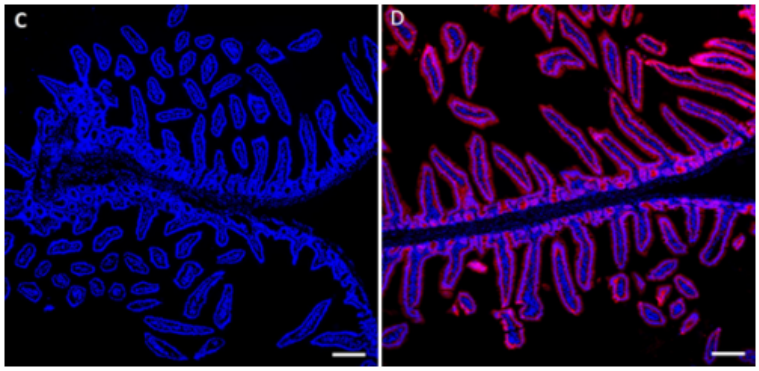
Other Formats

Purified anti-mouse CD326 (Ep-CAM), Alexa Fluor® 594 anti-mouse CD326 (Ep-CAM), Alexa Fluor® 647 anti-mouse CD326 (Ep-CAM), Alexa Fluor® 488 anti-mouse CD326 (Ep-CAM) Antibody

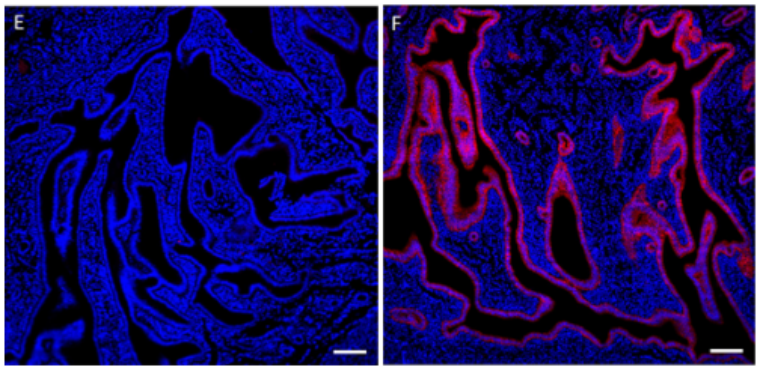
Product Data



IHC staining of anti-mouse CD326 (Ep-CAM) (clone W21115A) Alexa Fluor® 647 on C57BL/6 mouse frozen uterine tissue. After fixing with 4% paraformaldehyde (PFA) for 10 minutes at room temperature, the tissue was blocked with 5% FBS for 30 minutes at room temperature. Then, the tissue was stained with 5 µlg/mL of rat IgG2a, κ Alexa Fluor® 647 isotype control (panel A) or anti-mouse CD326 (Ep-CAM) Alexa Fluor® 647 (panel B) (red) at 4°C overnight. Nuclei were counterstained with DAPI (blue). The image was captured with a 10X objective. Scale bar: 50 µm



IHC staining of anti-mouse CD326 (Ep-CAM) (clone W21115A) Alexa Fluor° 647 on formalin-fixed paraffin-embedded C57BL/6 mouse small intestine tissue. After antigen retrieval using 1X Citrate Buffer (Cat. No. 420901), the tissue was stained with 2.5 µlg/mL of rat IgG2a, κ Alexa Fluor® 647 isotype control (panel C) or anti-mouse CD326 (Ep-CAM) Alexa Fluor® 647 (panel D) (red) at 4°C overnight. Nuclei were counterstained with DAPI (blue). The image was captured with a 10X objective. Scale bar: 50 µm



IHC staining of anti-mouse CD326 (Ep-CAM) (clone W21115A) Alexa Fluor® 647 on formalin-fixed paraffin-embedded C57BL/6 mouse uterine tissue. After antigen retrieval using 1X Citrate Buffer 1X (Cat. No. 420901), the tissue was stained with 5 µg/mL of rat IgG2a, κ Alexa Fluor® 647 isotype control (panel E) or anti-mouse CD326 (Ep-CAM) Alexa Fluor® 647 (panel F) (red) at 4°C overnight. Nuclei were counterstained with DAPI (blue). The image was captured with a 10X objective. Scale bar: 50 µm

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