

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

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|--------------------------|---|
| 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

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| 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 | <p>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.</p> <p>* Alexa Fluor® 647 has a maximum emission of 668 nm when it is excited at 633 nm / 635 nm.</p> <p>Alexa Fluor® and Pacific Blue™ are trademarks of Life Technologies Corporation.</p> <p>View full statement regarding label licenses</p> |
| Excitation Laser | Red Laser (633 nm) |
| RRID | AB_3674976 (BioLegend Cat. No. 114205) AB_3674976 (BioLegend Cat. No. 114206) |

Antigen Details

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| 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 |

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| 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 | <ol style="list-style-type: none"> 1. Borkowski TA, <i>et al.</i> 1996. <i>Eur J Immunol.</i> 26:110-4. 2. Bergsagel PL, <i>et al.</i> 1992. <i>J Immunol.</i> 148:590-6. |
| Gene ID | 17075 |

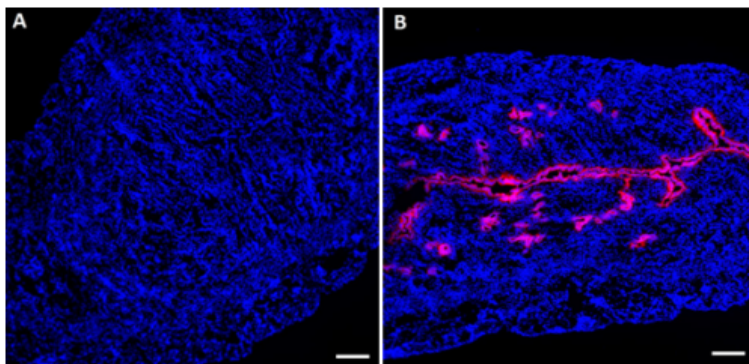
Related Protocols

- [Immunohistochemistry Protocol for Frozen Sections](#)
- [Immunohistochemistry Protocol for Paraffin-Embedded Sections](#)

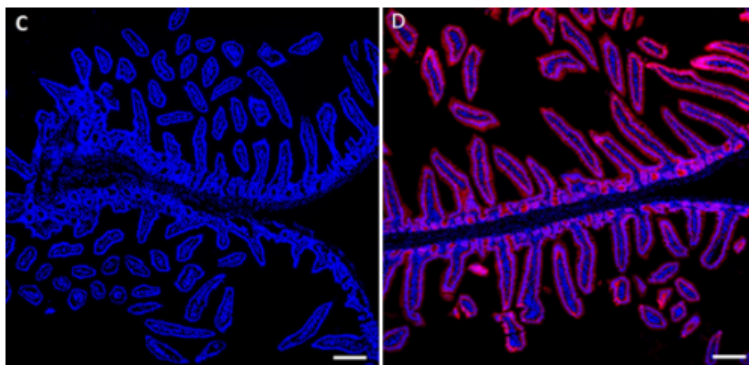
Other Formats

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

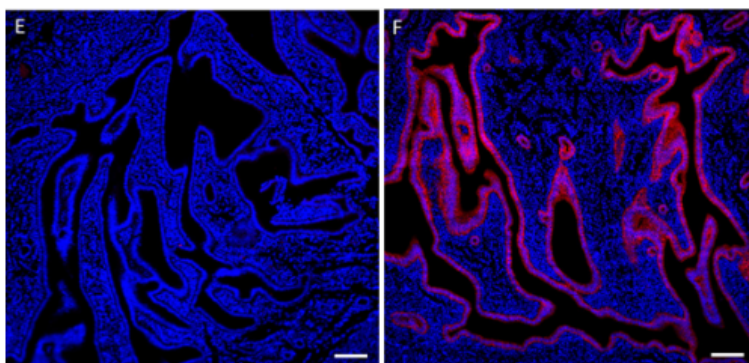
Product Data



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 $\mu\text{g}/\text{mL}$ 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 $\mu\text{g}/\text{mL}$ 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 $\mu\text{g}/\text{mL}$ 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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