Alexa Fluor® 488 anti-mouse CD326 (Ep-CAM) Antibody

Catalog# / Size	112203 / 25 µg 112204 / 100 µg
Clone	W20119E
Regulatory Status	RUO
Other Names	EGP40, MIC18, TROP1, KSA
Isotype	Rat IgG2b, κ
Description	Ep-CAM (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 Ep-CAM seems to correlate inversely with the level of E-cadherin (CD324). Ep-CAM is considered important in tumor biology.

Product Details

Verified Reactivity	Mouse
Antibody Type	Monoclonal
Host Species	Rat
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® 488 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	FC - Quality tested IHC-F - Verified
Recommended Usage	Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is ≤ 0.25 µg per million cells in 100 µL volume.For immunohistochemistry on frozen tissue sections, a concentration of 10.0 µg/mL is suggested. It is recommended that the reagent be titrated for optimal performance for each application. * Alexa Fluor® 488 has a maximum emission of 519 nm when it is excited at 488 nm. Alexa Fluor® and Pacific Blue™ are trademarks of Life Technologies Corporation. View full statement regarding label licenses
Excitation Laser	Blue Laser (488 nm)
RRID	AB_3683139 (BioLegend Cat. No. 112203) AB_3683139 (BioLegend Cat. No. 112204)

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

Interaction	CD326 displays hemophilic binding.
Ligand/Receptor	CD305 (LAIR-1), CD306 (LAIR-2), and Ep-CAM
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

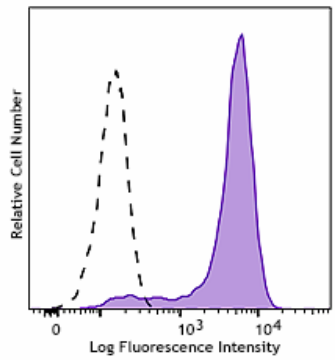
Related Protocols

- Immunohistochemistry Protocol for Frozen Sections
- Cell Surface Flow Cytometry Staining Protocol

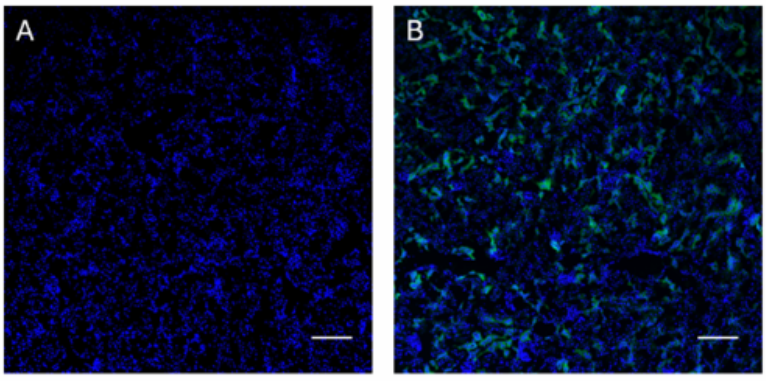
Other Formats

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

Product Data



TE-71 cells were stained with anti-mouse CD326 (Ep-CAM) (clone W20119E) Alexa Fluor® 488 (filled histogram) or rat IgG2b, κ Alexa Fluor® 488 isotype control (open histogram).



IHC staining of Alexa Fluor® 488 anti-mouse CD326 (Ep-CAM) (clone W20119E) on C57BL/6 mouse frozen kidney. After fixing with 4% paraformaldehyde (PFA) for 10 minutes, the tissue was blocked and incubated without (panel A) or with (panel B) 10 µg/mL of Alexa Fluor® 488 anti-mouse CD326 (Ep-CAM) (clone W20119E) (green). Nuclei were counterstained with DAPI (Cat. No. 422801) (blue). Images were captured with a 10X objective. Scale bar: 200 µm

8999 BioLegend Way, San Diego, CA 92121 www.biolegend.com
Toll-Free Phone: 1-877-Bio-Legend (246-5343) Phone: (858) 768-5800 Fax: (877) 455-9587