

PE anti-mouse CD104 Antibody

Catalog# / Size	123609 / 25 µg 123610 / 100 µg
Clone	346-11A
Regulatory Status	RUO
Other Names	Integrin β4, β4 integrin, TSP-1180, ITGB4
Isotype	Rat IgG2a, κ
Description	CD104 is a 205 kD type I transmembrane glycoprotein, also known as integrin β4 chain or β4 integrin, that associates with integrin α6 (CD49f) to form the α6/β4 (CD49f/CD104) heterodimer. CD104 is expressed on epithelial cells (especially on proliferative basal layer epithelial cells in skin), endothelial cells, Schwann cells, certain tumor cells, and a subset of pre-T cells. The CD49f/CD104 heterodimer is an adhesion receptor for laminins (especially laminin 5) and keratin filaments, and is involved in the regulation of hemidesmosome formation and cell proliferation and activation.

Product Details

Verified Reactivity	Mouse
Antibody Type	Monoclonal
Host Species	Rat
Immunogen	Tumor-associated antigen TSP-180 from BALB/c lung carcinoma
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
Preparation	The antibody was purified by affinity chromatography and conjugated with PE under optimal conditions.
Concentration	0.2 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
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. It is recommended that the reagent be titrated for optimal performance for each application.
Excitation Laser	Blue Laser (488 nm) Green Laser (532 nm)/Yellow-Green Laser (561 nm)
Application Notes	Additional reported (for the relevant formats) applications include: immunohistochemical staining ¹ .
Application References	1. Tennenbaum T, <i>et al.</i> 1993. <i>Cancer Res.</i> 53:4803. (IHC)
(PubMed link indicates BioLegend citation)	
Product Citations	1. Weiner AI, <i>et al.</i> 2019. NPJ Regen Med. 4:17. PubMed 2. Lucas B, <i>et al.</i> 2020. Nat Commun. 11:2198. PubMed 3. Kathiriyi JJ, <i>et al.</i> 2020. Cell Stem Cell. 26(3):346-358.e4.. PubMed
RRID	AB_2563543 (BioLegend Cat. No. 123609) AB_2563544 (BioLegend Cat. No. 123610)

Antigen Details

Structure	Integrin β chain, 205 kD, forms heterodimer with integrin $\alpha 6$ (CD49f)
Distribution	Epithelial cells, endothelial cells, some tumor cells, pre-T cell subset
Function	Adhesion
Ligand/Receptor	Laminins, keratin filaments
Cell Type	Embryonic Stem Cells, Endothelial cells, Epithelial cells, T cells
Biology Area	Cell Adhesion, Cell Biology, Immunology, Stem Cells
Molecular Family	Adhesion Molecules, CD Molecules
Antigen References	1. Kennel SJ, <i>et al.</i> 1992. <i>J. Cell Sciences</i> 101:1992.
Gene ID	192897

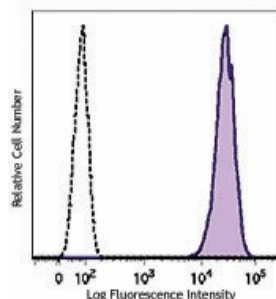
Related Protocols

[Cell Surface Flow Cytometry Staining Protocol](#)

Other Formats

Purified anti-mouse CD104, Biotin anti-mouse CD104, FITC anti-mouse CD104, Alexa Fluor® 647 anti-mouse CD104, PE anti-mouse CD104, PerCP/Cyanine5.5 anti-mouse CD104, PE/Cyanine7 anti-mouse CD104, APC anti-mouse CD104, TotalSeq™-C1028 anti-mouse CD104, TotalSeq™-B1028 anti-mouse CD104

Product Data



Mouse lung carcinoma cell line (Line 1) was stained with CD104 (clone 346-11A) PE (filled histogram) or rat IgG2a, κ PE isotype control (open histogram).

For research use only. Not for diagnostic use. Not for resale. BioLegend will not be held responsible for patent infringement or other violations that may occur with the use of our products.

*These products may be covered by one or more Limited Use Label Licenses (see the BioLegend Catalog or our website, www.biolegend.com/ordering#license). BioLegend products may not be transferred to third parties, resold, modified for resale, or used to manufacture commercial products, reverse engineer functionally similar materials, or to provide a service to third parties without written approval of BioLegend. By use of these products you accept the terms and conditions of all applicable Limited Use Label Licenses. Unless otherwise indicated, these products are for research use only and are not intended for human or animal diagnostic, therapeutic or commercial use.

BioLegend Inc., 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