

PE anti-human CD111 (Nectin-1) Antibody

Catalog# / Size	340404 / 100 tests
Clone	R1.302
Other Names	Poliovirus Receptor Related 1 Protein (PRR1), Nectin-1, HveC
Isotype	Mouse IgG1, κ
Description	CD111, known as poliovirus receptor related 1 protein (PRR1), Nectin-1 and HveC, is a 75 kD type I transmembrane glycoprotein. A member of the nectin family and Ig gene superfamily, CD111 is broadly expressed on endothelial cells, epithelial cells, neuronal cells, megakaryocytes, and CD34-positive stem cells. CD111 functions as one of the herpes simplex virus 1 (HSV-1) and HSV-2 receptors and is an adhesion molecule involved in the formation of cell junctions.

Product Details

Reactivity	Human
Antibody Type	Monoclonal
Host Species	Mouse
Immunogen	Human Nectin-1 transfected NIH/3T3 cells
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA).
Preparation	The antibody was purified by affinity chromatography, and conjugated with PE under optimal conditions.
Concentration	Lot-specific (please contact technical support for concentration and total μ g amount, or use our Lookup tool if you have a lot number.)
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 5 μ l per million cells in 100 μ l staining volume or 5 μ l per 100 μ l of whole blood.
Excitation Laser	Blue Laser (488 nm) Green Laser (532 nm)/Yellow-Green Laser (561 nm)
Application Notes	Additional reported applications (for relevant formats) include: immunoprecipitation, Western blot, immunohistochemical staining of frozen tissue sections, block HSV-1 and HSV-2 entry into cells
Application References (PubMed link indicates BioLegend citation)	<ol style="list-style-type: none"> 1. Cocchi F, et al. 1998. Proc. Natl. Acad. Sci. USA. 95:15700. 2. Martinez WM and Spear PG. 2002. J. Virol. 76:7255. 3. Reymond N, et al. 2004. J. Exp Med. 199:1331. 4. Gillory LA, et al. 2013. PLoS One. 8:77753. PubMed
Product Citations	<ol style="list-style-type: none"> 1. Gillory L, et al. 2013. PLoS One. 8:77753. PubMed 2. Friedman G, et al. 2016. Neuro Oncology. 18: 227 - 235. PubMed 3. Suzuki D, et al. 2020. Stem Cell Reports. 14:49. PubMed
RRID	AB_2174152 (BioLegend Cat. No. 340404)

Antigen Details

Structure	75 kD type I transmembrane glycoprotein, Nectin family, Ig superfamily
Distribution	Myelomonocytic cells, megakaryocytes, CD34-positive stem cells, endothelial cells, epithelial cells, and neuronal cells.

Function	Adhesion, receptor for Herpes simplex Virus 1 (HSV-1) and HSV-2
Ligand/Receptor	Nectin-1, -2, -3, and -4, CD155, HSV-1 and HSV-2
Cell Type	Megakaryocytes, Hematopoietic stem and progenitors, Endothelial cells, Epithelial cells
Biology Area	Cell Biology, Immunology, Neuroscience, Synaptic Biology
Molecular Family	Adhesion Molecules, CD Molecules
Antigen References	<ol style="list-style-type: none"> 1. Zola h, et al. 2007. Leukocyte and Stromal Cell Molecules:The CD Markers. Wiely-Liss A John Wiley & Sons Inc, Publication. 2. Simpson SA, et al. 2005. J. Neuroviral. 11:208. 3. Akhtar J, et al. 2008. Ophthalmol. Vis. Sci. 49:4026.
Gene ID	5818

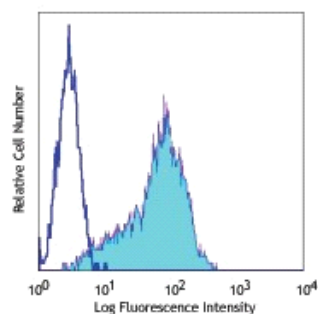
Related Protocols

[Cell Surface Flow Cytometry Staining Protocol](#)

Other Formats

Purified anti-human CD111 (Nectin-1)

Product Data



Human erythroleukemia cell line TF-1 stained with R1.302 PE

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